

Cloud Infrastructure & Communications Technology: In This Issue

Q4 2023

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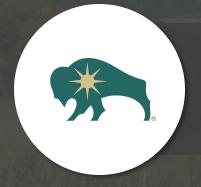


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About D.A. Davidson

Overview of D.A. Davidson's diversified full-service platform and capabilities spanning investment banking, wealth management, nationally-recognized research, and advisory services - and our differentiated approach to helping our clients achieve their strategic and financial goals





\$662M

100%

1,600+

100 +

NET REVENUE

EMPLOYEE OWNERSHIP

EMPLOYEES

OFFICE LOCATIONS





D.A. Davidson Is One Of The Most Active Tech Banks, With 110+ Deals Closed Since 2020

Our **Services**

M&A ADVISORY

Advising clients through a range of M&A strategies including sell-side and buy-side acquisitions, mergers, and divestitures - working with both strategic and financial parties across our global network

PUBLIC EQUITY

Tailored public financing solutions including IPOs, ATMs, PIPEs, and Preferred Securities Offerings - distributed through hundreds of institutional relationships and a broad network to bring your story to investors

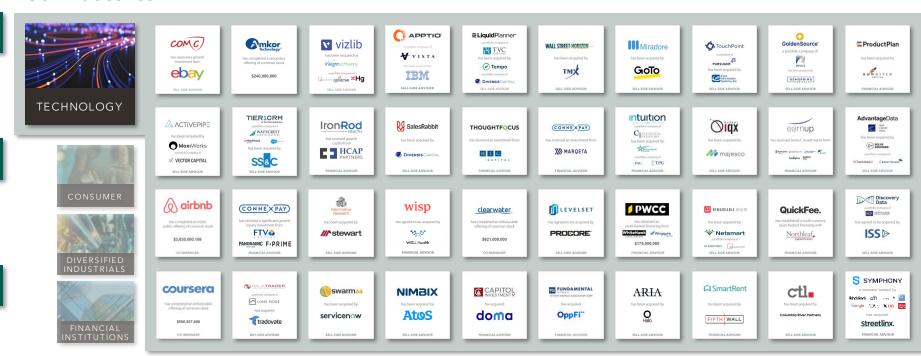
PRIVATE PLACEMENTS

Curated private offerings to carefully selected and vetted parties, including institutional investors

CORPORATE ADVISORY

Services for companies and executives looking for experience, product knowledge, and guidance

Our **Industries**



Delivering Superior Outcomes For Our Clients

110+

TRANSACTIONS

\$21B+

DEAL VALUE

50+

M&A TRANSACTIONS

60+

DEBT & EQUITY FINANCINGS

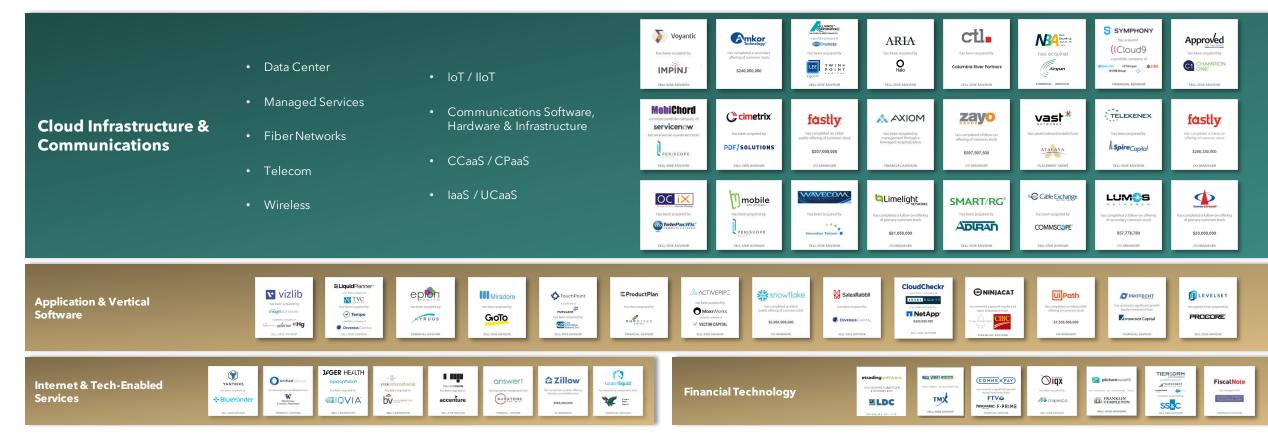




Our Industry Knowledge Spans The Entire Technology Ecosystem With A Deep Sector Focus

D.A. Davidson's industry knowledge spans the entire technology ecosystem with transactional experience across a wide range of segments

Sector Specialists First: Proficient Across Four Technology Verticals, With Differentiated Expertise In Cloud Infrastructure & Communications



Bringing Scale To Your Deal

110+ Technology Transactions

\$21B+ Deal Value

27+ Deal Countries



Significant Expertise In Cloud Infrastructure and Communications

LEADERS OF THE CLOUD INFRASTRUCTURE & COMMUNICATIONS SECTOR



Brad Gevurtz

MANAGING DIRECTOR, TECHNOLOGY INVESTMENT BANKING

- Over 30 years of technology investment banking experience
- Worked for 20 years on Wall Street as a senior banker at JPMorgan Chase, KeyBanc Capital Markets, and Broadview Int'l (now Jefferies)
- Started his career at AT&T and has executed M&A, private capital raises, and public equity transactions worldwide for public and private communications and technology companies such as Alltel, AT&T, Cable Exchange, Fastly, IBM, Limelight, Lumos, Radisys, Towerstream, Vast Networks, Verizon, Wavecom, Zayo, and many others
- MBA, Columbia University; JD, Oregon Law; BA, Pomona College



Amy Johnson

MANAGING DIRECTOR, TECHNOLOGY INVESTMENT BANKING

- Over 30 years of investment banking and capital markets experience
- Senior banker at Swiss Bank Corp/SBC Warburg (now UBS) and Bank Street Group
- Has executed M&A and capital markets transactions globally for public and private communications companies, including 365 Data Centers, AboveNet, Alpheus Communications, Colo ATL/American Tower, Airband, Digital Crossroads, Hibernia Networks, Highwinds, and OnFiber, among others
- Deep domain expertise in fiber networks, data centers, subsea cable, and wireless infrastructure and services
- BBA Finance with honors, University of Notre Dame

SIGNIFICANT COMBINED SECTOR KNOWLEDGE & DEAL EXPERIENCE

\$41B+

DEAL VALUE COMPLETED

350+

DEALS COMPLETED

65+

YEARS OF EXPERIENCE

Notable Cloud & Communications Transactions



















Cloud, Communications, & Digital Infrastructure

- Deep expertise in advising cloud infrastructure and communications companies on M&A as well as public and private debt and equity raises
- 60+ relevant transactions completed by our Communications Technology senior bankers throughout their careers
- Real-time dialogues with global network of industry buyers
- Dedicated private equity and private debt groups
- Senior bankers with investment banking and industry experience



D.A. Davidson Is Well Connected Across All Major CommTech Conferences

CONFERENCE OVERVIEW

KEY CONFERENCE TAKEAWAYS



Metro Connect is the premier U.S. digital infrastructure conference that brings in leaders across the fiber, data center, cloud, tower, and cable industries allowing leaders in the space to share notable announcements, updates on M&A deals, and forecasts for the year ahead in addition to solution-focused discussions on market disruptions and opportunities.

- For Network Operators Fiber Build-Outs Represent a Modern-Day "Gold Rush": As legacy net cable adds wane, Tier-1 broadband providers have become vocal promoters of investment in fiber-to-the-premise ("FTTP") to drive the next generation of growth as FTTP investment increases subscriber and revenue growth, increases customer satisfaction, lowers customer churn rates, and reduces network maintenance costs.
- An Influx of Public and Private Capital Is Driving Ambitious Build Plans: Massive government funding plans enacted in the U.S. and Canada support the buildout of broadband networks in rural areas where deployments are more expensive on a per-subscriber basis: US\$100+ billion from U.S. governments with C\$12 billion from Canadian governments.



ConnectX is one of the premier 5G infrastructure conference that brings together the entire ecosystem to discuss the latest trends, within: network planning and deployment, spectrum and licensing, security and privacy, small cells and distributed antenna systems (DAS), and 5G neutral host networks.

- Small Cells are Powering the Wireless Revolution: As the demand for low-latency, high-speed, and reliable coverage continues to grow, small cells have emerged as a critical solution. These compact, low powered cell stations help extend coverage and capacity to areas where macrocell infrastructure may be less effective and are playing a vital role in enabling seamless connectivity and the broader 5G rollout.
- The Critical Role of the Data Center: Emphasis was placed upon the critical role of data centers in supporting the growing wireless ecosystem. Data centers provide the infrastructure needed for processing, storing, and distributing the expansive data generated by the wireless networks. As data consumption continues to rise exponentially (increasingly fueled by AI), the demand for robust, efficient, and secure data centers will rise as well.



Mobile World Congress Las Vegas is a premier 5G infrastructure focused events that brings together leaders in the industry to discuss the most cutting edge developments in network planning and deployment, spectrum and licensing, security and privacy, small cells and distributed antenna systems (DAS), and 5G neutral host networks.

- FWA as a Proven Major 5G Use Case: Notably, 5G Fixed Wireless (FWA) has seen increased traction across both carriers and investors, given FWA's high-speed capabilities, compelling economics, and accelerating number of connections, which present a significant market opportunity for growth.
- Wireless Security As a Priority: Given the rapidly growing available use cases for 5G and other wireless infrastructure, security product solutions remained top of mind. Wireless network security is critical because it helps protect data from unauthorized access.



The TMT M&A Forum 2023 gathered 450 leaders, including TMT mergers and acquisition executives, financiers and professional advisers, to assess the next wave of transactions that will shape TMT sectors globally and assess trends that will shape TMT sectors globally.

- Massive Data Center Spend Will Continue to Drive Outsized Need for Institutional Capital: With an estimated \$400BN global spend on data centers over the next five years driven largely by AI, the significant need for institutional capital is expected to continue for the next several years. In order to fund this spend, the industry will need to look beyond the traditional bank market to new sources of senior and junior debt capital such as private credit funds and insurance companies. Meanwhile, equity funding will continue to come from the growing universe of infrastructure funds, sovereign wealth funds, family offices and private equity funds that are targeting investments in the sector.
- Fiber-to-the-Premise (FTTX) Broadens Access to Capital Markets Through Securitizations: Following previous securitizations by Allo and Ting, Frontier's recent investment grade rated securitization of fiber assets and related residential and business customer contracts in the Dallas metro area provides another avenue of debt financing for the FTTX sector in addition to private markets and approximately \$42.5BN of government-sponsored BEAD funding. Market participants view FTTX as being in early innings earmarked by growth, with consolidation and M&A further down the road.
- Increasing Number of Joint Ventures and Growth Equity Deals in Data Center and Fiber Assets in 2023: This trend is expected to continue into 2024 to fund build outs and meet market demand. Investor participation is expected to broaden beyond traditional broadband infrastructure funds to include pension funds and sovereign wealth funds. With existing digital infrastructure investors tending to hold high quality assets for longer periods, there will be more interest in continuation funds and minority equity investments from passive investors.



Leading Middle Market Technology Investment Bank







































































































Leading Middle Market Technology Investment Bank, Cont'd



























has been acquired by

SELL-SIDE ADVISOR









































































Deep Experience In Cloud Infrastructure and Communications Technologies























































Deep Experience In Cloud Infrastructure and Communications Technologies, Cont'd













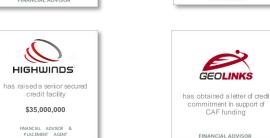








































M&A Case Study: Voyantic Ltd.



CLIENT DESCRIPTION

Provider of RFID testing and measurement services for IoT devices

DEAL TYPE

Sell-Side M&A

SECTOR

Communications Equipment and Distribution

BACKGROUND

Voyantic was founded in Finland in 2004 and is a respected global market leader in testing and measurement solutions for communications technology/IoT. The Company specializes in RAIN RFID which is a wireless technology that connects billions of everyday items to the Internet, enabling businesses and consumers to identify, locate, authenticate, and engage each item. Voyantic's solutions are used by manufacturers, technology vendors, service bureaus and endusers. The Company has more than 2,000 installed systems in more than 40 countries across the globe.

D.A. DAVIDSON MCF INTERNATIONAL ROLE

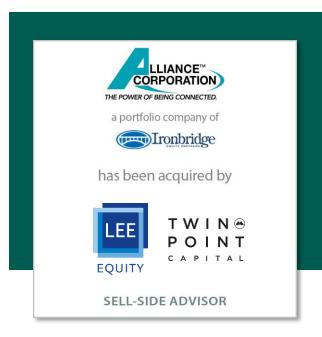
D.A. Davidson MCF International served as the exclusive advisor to Voyantic and helped facilitate the deal through its proven ability to successfully execute bilateral transactions. This deal highlights the success of the D.A. Davidson MCF International alliance and showcases the team's deep communications technology/IoT expertise as well as its ability to execute cross-Atlantic transactions.

TRANSACTION CONCLUSION

Impinj is a leader in the IoT sector, manufacturing radio-frequency identification devices and software. Impinj extends the Internet's reach from the cloud, through edge connectivity devices, all the way to physical items. Voyantics's RAIN RFID solutions advance the Impinj platform's leading position in RAIN RFID quality, reliability, and readability. Ultimately, the transaction creates more opportunities to grow and strengthens Impinj's existing offering in the RAIN RFID end market.



M&A Case Study: Alliance Corporation



CLIENT DESCRIPTION

Distributor, solutions provider, and cable terminator for the wireless industry

DEAL TYPE

Sell-Side M&A

SECTOR

Communications Equipment and Distribution

BACKGROUND

Alliance is Canada's largest value-added distributor of wireless communications technology and is one of the fastest growing distributors in the United States, providing mission-critical solutions to the leading wireless carriers across North America. The Company is one of only two scaled North American distributors with cable termination capabilities and supports the construction, maintenance and upgrades of cellular towers, indoor cellular service and broadband internet. Alliance distributes over 5,000 SKUs comprising virtually every product necessary for network builds, maintenance and upgrades, as well as terminates technologically advanced, custom cabling, for a broad range of end customers including carriers, internet service providers, contractors, building owners and other enterprises and government entities that utilize broadband infrastructure.

D.A. DAVIDSON ROLE

D.A. Davidson served as exclusive financial advisor to Alliance. Davidson worked closely with Alliance's management to position the Company as an industry leader and conducted a targeted process that generated significant competitive interest from both strategic and financial parties, resulting in a premium valuation for shareholders.

TRANSACTION CONCLUSION

The Company's unique wireless services platform and leadership position in both distribution and cable termination, diversified customer base across all major U.S. and Canadian wireless carriers, and broad and experienced management team with deep relations in the industry made Alliance an attractive platform investment for Lee Equity and Twin Point Capital. Plans are in place to further accelerate growth, both organically and through strategic acquisitions, and expand the Company's leadership position in its core services and new adjacent services.



We are incredibly thankful for the advice and expertise delivered by the D.A. Davidson technology investment banking team working on this transaction. Their industry knowledge in communications, transaction proficiency and ability to drive an efficient process delivered an outstanding outcome that has us confident about our next phase of growth.

- Ron Moss, President of Alliance Corporation





M&A Case Study: Computer Technology Link (CTL)



CLIENT DESCRIPTION

Provider of communications hardware and systems

DEAL TYPE

Sell-Side M&A

SECTOR

Communications Equipment and EdTech

BACKGROUND

Founded in 1989, CTL is a leading provider of Google Chrome devices and other communications technology solutions and services to the education and business markets. The Company offers a comprehensive line of high quality, customer-driven computing devices, including laptop, tablet and mobile devices, desktop solutions, high performance monitors, video conferencing solutions, and server and storage solutions.

D.A. DAVIDSON ROLE

D.A. Davidson served as exclusive financial advisor to CTL. The Company was owned by two shareholders consisting of CTL's founder and President. The founder was seeking liquidity for his stake in the company and, as a result, Davidson was hired to evaluate strategic options that would provide the best possible outcome for both the founder and the management team. The Davidson team leveraged its deep relationships with both strategic and financial parties and spent a significant amount of time working with the management team to best present the CTL story. As a result, Davidson was able to run an efficient process, guide the preferred buyer to a premium valuation, and structure a transaction that provided the desired liquidity for the Company's founder and a private equity partner for the management team.

TRANSACTION CONCLUSION

The founder and President were concerned with finding the right party that was optimal for the long-term viability of the business, while still maximizing value. Columbia River Partners brings significant relevant sector expertise and the additional growth capital necessary to continue to accelerate and execute on CTL's strategic growth opportunities, both domestically and internationally.



D.A. Davidson's experience and transaction expertise were critical in allowing CTL's shareholders to realize an optimal outcome while also finding CTL a partner that provides the capital and expertise to help best position the company for continued growth.

- Erik Stromquist, President of CTL





M&A Case Study: Aria Technologies, Inc.



has been acquired by



SELL-SIDE ADVISOR

BACKGROUND

Aria Technologies is an industry leading designer, manufacturer, and provider of fiber optic connectivity solutions located in the San Francisco Bay Area. The Company specializes in fiber optic assemblies, patch panels and other fiber optic and copper-based network components as well as in-house custom engineering, design, and fabrication services. Aria Technologies' dedication to customer satisfaction has made the company a trusted partner to 270+ customers, including Fortune 500 companies and some of the world's most recognized and demanding cable TV, telecommunications, and data center providers.

D.A. DAVIDSON ROLE

D.A. Davidson served as exclusive financial advisor to Aria Technologies. Davidson worked closely with Aria Technologies' management team to conduct a targeted M&A process that provided the Company with competitive interest from financial and strategic acquirers, resulting in multiple pre-emptive bids and an accelerated close for the founders.

TRANSACTION CONCLUSION

The combination of Aria's design capabilities coupled with their pre-assembled and tested enterprise-class optical components strengthen Halo's product offering allowing them to meet the optical solution needs of any customer across the globe.

CLIENT DESCRIPTION

Designer and manufacturer of fiber optic connectivity solutions

DEAL TYPE

Sell-Side M&A

SECTOR

Communications Equipment and Distribution

66

The D.A. Davidson technology investment banking team was invaluable in the outcome of this transaction. The team's industry expertise and transaction execution capabilities enabled the shareholders to realize the optimal outcome while also best positioning Aria Technologies for future growth.

- Joe McGuinness, President of Aria Technologies



M&A Case Study: Cimetrix, Inc.



has been acquired by

PDF/SOLUTIONS"

SELL-SIDE ADVISOR

CLIENT DESCRIPTION

Provider of smart factory connectivity software solutions

DEAL TYPE

Sell-Side M&A

SECTOR

IIoT Software & Communications

BACKGROUND

Cimetrix is a leading global provider of equipment connectivity software solutions for smart manufacturing, Industrial IoT and Industry 4.0, with products and platforms that connect factory equipment to increase productivity, reduce costs, and improve quality. The company's software solutions are used by equipment manufacturers around the world, providing factory automation connectivity for multiple equipment types. Headquartered in Salt Lake City, Utah, Cimetrix has offices worldwide in China, Germany, Japan, Korea and Taiwan.

D.A. DAVIDSON ROLE

D.A. Davidson served as exclusive financial advisor to Cimetrix. Davidson worked closely with Cimetrix's management to conduct a targeted M&A process that provided the Company with competitive interest from multiple acquirers, resulting in a merger with PDF solutions, a leading provider of advanced analytics solutions and differentiated data for semiconductor and electronics manufacturing.

TRANSACTION CONCLUSION

The combination of Cimetrix connectivity products and platforms with PDF Solutions Exensio analytics platform, enables semiconductor and electronics manufacturers to extract more intelligence, not just data, from their factory floor, and as a result, build more reliable ICs and systems at lower manufacturing costs. As a combined entity the Company is able to deliver the highest level of tool and manufacturing intelligence from the factory floor to enable customers to realize the benefits of Industry 4.0.



The D.A. Davidson team was invaluable in this process, providing the transaction expertise and industry knowledge necessary to achieve an optimal outcome for Cimetrix and its shareholders. We are excited to move forward as the Cimetrix Connectivity Group within PDF Solutions to continue serving our customers by providing innovative connectivity and smart manufacturing software products, platforms, and solutions.

- Bob Reback, CEO of Cimetrix





M&A Case Study: Approved Networks, Inc.



CLIENT DESCRIPTION

Provider of networking equipment and cable solutions

DEAL TYPE

Sell-Side M&A

SECTOR

Communications Equipment and Distribution

BACKGROUND

Based in Lake Forest, California, and founded in 2009, Approved Networks is a leading provider of optical networking solutions for the smart data center. Approved Networks has created one of the most comprehensive and innovative testing facilities in the U.S. and boasts relationships with 3,000+ clients in 30+ countries, including Fortune 500 companies and many of the largest data centers, telecommunications companies, and enterprises across the globe. Approved's stellar industry reputation for high-quality products and services augmented by its consistent innovation has allowed it to deliver first-to-market compatibility solutions in the most rigorous optical networking environments for over a decade.

D.A. DAVIDSON ROLE

D.A. Davidson served as exclusive financial advisor to Approved Networks. Davidson worked closely with Approved Network's management to conduct a targeted M&A process that provided management with competitive interest from a select group of acquirers, resulting in a premium valuation for shareholders.

TRANSACTION CONCLUSION

The combination of Approved Networks and Champion ONE has created one of the most comprehensive designers, marketers, and providers of carrier grade optical transceivers and related mission critical components to telecommunications, cable, data center, and enterprise customers in North America and International markets.

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We are incredibly thankful for the advice and expertise delivered by the D.A. Davidson technology investment banking team working on this transaction. Their buyer knowledge, transaction proficiency, and ability to drive an efficient process delivered an impressive outcome that has us excited about our next phase of growth.

- Kurt Dunteman, CEO of Approved Networks





M&A Case Study: Cable Exchange



BACKGROUND

Based in Santa Ana, California, Cable Exchange manufactures a variety of fiber optic and copper cables, trunks and related products used in high-capacity data centers and other business enterprise applications. The company, founded in 1986, specializes in quick-turn delivery of its infrastructure products to customers from its two U.S. manufacturing centers located in Santa Ana, CA, and Pineville, N.C.

D.A. DAVIDSON ROLE

D.A. Davidson served as exclusive financial advisor to Cable Exchange. Having scaled the business to a leadership position in its niche, the Company's founders hired D.A. Davidson to sell Cable Exchange to a buyer that would retain the existing team and be able to execute on its strategic growth initiatives. D.A. Davidson presented Cable Exchange as a technology leader, providing quick-turn capabilities that were unheard of in the industry but were quickly becoming the standard for hyper-converged data center customers. Having received significant interest from several strategic parties, Davidson ran a targeted process focused on several strategic and highly relevant financial parties.

TRANSACTION CONCLUSION

Despite concerns around cyclicality and customer concentration, Davidson was able to solicit multiple bids and drive the preferred buyer to a premium valuation, all in less than 90 days from initial outreach to completion of the transaction. With the acquisition, CommScope is now able to add quick-turn capabilities to its high-growth data center business.

CLIENT DESCRIPTION

Manufacturer of fiber optic and copper cables, trunks and related products for enterprise applications

DEAL TYPE

Sell-Side M&A

SECTOR

Communications Equipment and Networking



D.A. Davidson played a critical role in helping us realize this partnership with CommScope. The team's expertise and capabilities allowed us to efficiently come to an agreement while maintaining our focus on serving our customers.

- Dan Bowlin, CFO of Cable Exchange







Key Trends In The Cloud Infrastructure and Communications Industry In 2023

5G CONNECTIVITY IS POISED TO EXPAND FOLLOWING AMERICA'S LARGEST EVER SPECTRUM AUCTION

- The FCC completed its auction of C-Band spectrum (Auction 107) in February of 2021, in the first big auction of valuable, unencumbered mid-band spectrum licenses in the US. The C-Band auction raised a historic \$81 billion, which indicates the tremendous value carriers see in the next generation 5G network. Worldwide 5G connections reached an estimated 1.1 billion by the end of 2022 and are projected to reach 5.9 billion by the end of 2027, representing an increase of 436%, driven by rapidly rising global data needs. (1,2,3,4)
- Spectrum spend is expected to accelerate the 5G build-out as carriers are highly motivated to build quickly or lose their spectrum licenses, as well as customers. These licenses are especially valuable to 5G network operators, as available mid-band frequencies are a key component to deploying 5G wireless networks.
- Auction 107 was easily the largest-ever spectrum auction, far exceeding the record for gross bid proceeds of \$45 billion raised in 2015 by the AWS-3 spectrum auction. Canada hosted a similar auction in July 2021 boasting 3500 MHz spectrum, which generated a record \$7.2 billion. (5)
- In January 2022, AT&T led bidders in a Federal Communications Commission (FCC) 5G spectrum auction of 3.45 GHz band spectrum, generating proceeds of \$22.5 billion. (6)
- In total, the Big 4 U.S. wireless carriers AT&T Inc., Verizon Communications Inc., T-Mobile US Inc. and DISH Network Corp. collectively spent nearly \$100 billion across the 3.45 GHz and C-Band auctions.

5G Rollout Roadmap by Year

| 2011 - 2015 | 2015 - 2018 | 2018 - 2020 | 2020 - 2028 | 2028+ | |
|--|--------------------|-----------------------|--------------------------|---------------|--|
| 5G Research, Initiatives, Partnerships | 5G Standardization | 5G Product Technology | 5G Commercial Deployment | 6G Deployment | |

CLOUD SPENDING AND USAGE IS BOOMING

- Worldwide cloud infrastructure spending grew an estimated 17% during 2022 to \$90 billion.
- Accelerated cloud adoption is dependent on a fast and reliable communications network, whether it is in the data center, fiber to the home, edge networking, 5G or elsewhere. (8,9)
- COVID-19 accelerated the long-term shift to the cloud, as 92% of enterprises now employ a multicloud strategy, while 80% employ a hybrid cloud strategy. The mass migration to a remote, digitalfirst society has directly driven increased cloud demand, as worldwide end-user spending on public cloud services grew an estimated 19% in 2022, totaling \$490 billion, and is expected to reach \$600 billion by the end of 2023. (10)

GOV. STIMULUS IS DRIVING BROADBAND INFRASTRUCTURE DEVELOPMENT

- The United States and Canadian governments have proposed/allocated an approximate combined \$275 billion between both the federal and state level in potential funding for broadband infrastructure.
- Currently, over 42 million Americans lack broadband access, and the government is focused on reducing the digital divide by providing internet access to these underserved populations. (1,11)
- The United States government is prepared to spend tens of billions of dollars in order to bridge this digital divide. The total amount needed in order to achieve universal broadband in the United States is estimated to be ~\$80 billion, of which \$20.4 billion has already been allocated through Rural Digital Opportunity Fund.



Rising Global Data Volume Needs

The global datasphere is projected to triple in growth by 2025 as enterprises and consumers become more dependent on it for business and personal applications



5G Tailwinds

Over the course of the next 5-7 years, carriers in North America are projected to spend over \$250 billion on wireless, not including spectrum spend



IoT Device Explosion

5 billion connections will be related to IoT by 2025, driven by massive end market expansion.



Public Safety DAS

New government regulations requiring wireless connectivity in all buildings for emergency responders will propel the public safety DAS market to grow 9x by 2027

Sources: 1) BroadbandNow Research, 'BroadbandNow Estimates for all 50 States' (October 2022); 4) 5G Americas Media Release (December 2022); 8) Reuter's 'Canada's spectrum auction raises record \$7.2 bln as firms gear for high-speed internet' (July 2021); 6) Reuter's 'Cata auction' (January 2022); 7) IDC 'Worldwide Quarterly Stepter Billion on the stress gear for high-speed internet' (July 2021); 6) Reuter's 'Cata auction' (January 2022); 7) IDC 'Worldwide Quarterly Stepter Billion on the stress gear for high-speed internet' (July 2021); 8) Markets and Markets, 'Artificial Intelligence (All) Market worth \$309.6 billion by 2026' (May 2021); 9) Bond Capital, 'Our New World 2020' (April 2020); 10) Gartner, 'Worldwide Public Cloud End-User Spending to Reach Nearly \$600 Billion in 2023' (October 2022); 11) Microsoft





Data Volume and Global Connectivity Are Driving The Proliferation of Cloud Services

ACCELERATING CLOUD GROWTH & RATE OF ADOPTION...

- Cloud services is one of the most dramatic emerging technologies of the past decade and remains the main driver of change in enterprise technology stacks, from SaaS to Infrastructure as a Service (IaaS), Platform as a Service (PaaS), Communications Platform as a Service (CPaaS), Unified Communications as a Service (UCaaS), Video Conferencing as a Service (VCaaS) and more, hosted in public and private datacenters. (1)
- · The shift in the top PaaS services used by organizations, favoring data warehousing, relational Database as a Service (DBaaS) and Container as a Service (CaaS), is driven by growing interest in leveraging containers to speed deployment, scale operations, and increase cloud-run workload efficiency. (2)

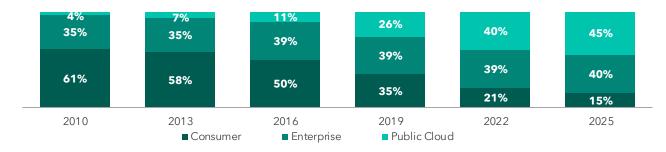
...SUPPORTED BY INCREASED INVESTMENT & INTERNET SPEED

- Rising global internet usage has enabled growth and innovation in cloud-based platforms, including greater access to fast wireless and broadband communications infrastructure, emerging 5G technology, smartphone proliferation, video on demand, VoIP, and digital media.
- Major technology and cloud service providers have reacted by investing in hyperscale datacenters, used by organizations managing massive levels of data generated by VR, big data, social media, analytics and data gathered by IoT devices. Hyperscale data centers have experienced a straight line trajectory, with an average of 16 new data centers emerging per guarter over the last 3 years. By mid-year 2023, there were more than 900 hyperscale data centers in operation around the world, with an additional few hundred in the works. (3)
- The growing importance of cloud services and corresponding infrastructure is driven by an explosive expansion in data that companies want to manage. analyze and draw conclusions from. Cloud services are being adopted at a rapid rate and are already a massive market which is projected to grow 21% in 2023. (4) Furthermore, by 2024, public and private cloud deployment will account for nearly 65% of worldwide IT infrastructure spending. (5)

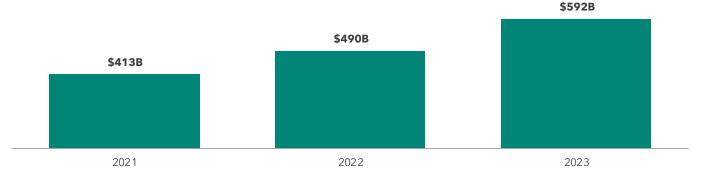
CLOUD DOMINATES IN AN INCREASINGLY DATA-DRIVEN WORLD



Data Stored by Manager (6,7)



Worldwide Public Cloud Service Revenue Forecast, per Gartner (4)



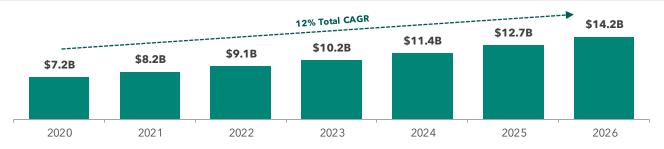
Sources: 1) Calero, 'Top 5 Emerging Trends Impacting Communications Technology for 2019' (December 2018); 2) Gartner, '2021 State of the Cloud Report' (March 2021); 3) Synergy Research Group, 'Hyperscale Data Center Capacity to Almost Triple in Next Six Years, Driven by Al' (October 2022); 5) IDC; Statista Estimates, 'IT Infrastructure Spending (October 2022); 5) IDC; Statista Estimates, 'IT Infrastructure Spending Forecast by Type' (7/30/2021); 6) Bord Capital, Mary Meeker 'Internet Trends 2019' (5/11/2019); 7) IDC, 'Digitization of the World From Edge to Core White Paper' developed in collaboration with Seagate (November 2018), Note: Consumer refers to devices owned by end users; Note: 2018 = last full year before release of report. 2019-2025 are estimated from current trends



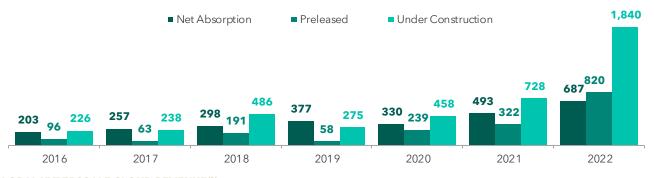
Key Trends In The Data Center

- · The data center sector continues to benefit from the ongoing digitization of the global economy, fueled by the ever-rising demand for e-commerce, the explosive growth of edge computing, and other secular trends including Artificial Intelligence (AI).
- The COVID-19 pandemic also boosted demand for many cloud and IT services. Many businesses found themselves with a sudden and heightened need for greater cloud technologies to connect their dispersed workforces in a work-from-home environment. This trend continued through 2022 and 2023 as cloud migration accelerated and as major data-producing platforms, hyperscalers (Google, Amazon, Microsoft, etc.), and others continued to rapidly grow their global data center footprints.
- The US data center construction market was valued at an estimated \$9.1B in 2022, and it is expected to achieve a value of \$14.2B by 2026, registering a CAGR of 12% over the period. The leading data center markets ranked by cost of construction included New Jersey (\$9.8 per watt), Silicon Valley (\$9.8 per watt), and Northern Virginia (\$8.4 per watt). (1)
- Despite the current broader economic environment and supply chain disruptions causing some construction timelines to be extended the construction pipeline within primary markets, which includes Northern Virginia, Dallas/Ft. Worth, Silicon Valley, Chicago, Phoenix, Atlanta, and New York Tri-State, increased 153% YoY, to 1,840 MW. (2)
- Primary markets saw 687 MW of positive absorption in 2022, up 193.6 MW (39%) from 2021. Northern Virginia, the world's largest data center market, accounted for 64% of this total. (2)
- · However, secondary markets continue to be the location of choice for edge deployments and for emerging use cases such as AI and block chain technologies, as such deployments allow companies to bring the connectivity closer to the source.
- Hyperscale public cloud vendors have been on a growth binge for a decade and today represent roughly 70-80% of all leasing in any given guarter. This growth is expected to continue through 2027, with hyperscale cloud revenue projected to reach ~\$728B, representing a CAGR of 41% as further entities choose to move more of their workloads to the public cloud for scalability and ease of access. (3)

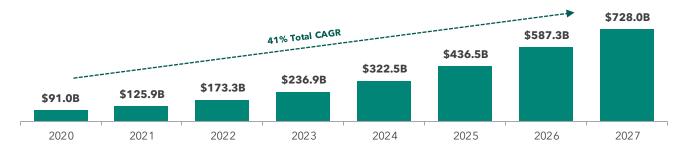
GROWING U.S. DATA CENTER CONSTRUCTION SPEND (1)



RECORD PRIMARY MARKETS NET ABSORPTION, PRELEASING, AND UNDER CONSTRUCTION (IN MEGAWATTS)(2)



GLOBAL HYPERSCALE CLOUD REVENUE(3)



Sources: 1) Mordor Intelligence, United States Data Center Construction Market; 2) CBRE, North American Data Center Trends Report H2 2022; 3) Cushman & Wakefield. 2023 Global Data Center Market Comparison; Structure Research

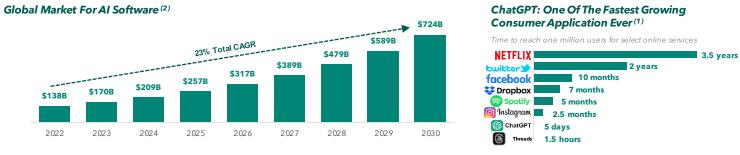




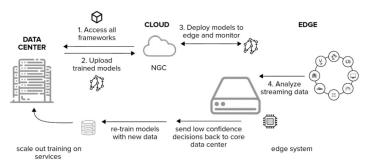
Artificial Intelligence (AI) Is Booming - Placing Greater Demand On Data Center Providers

- The Rapid Growth and Adoption of Artificial Intelligence: Tech giants including Amazon, Google, Apple, Meta, Nvidia, and others are investing heavily into the development of Al. Notably, OpenAl's ChatGPT, a humanlike chatbot that understands and responds to inputs from users, has exploded in popularity and has brought AI into the mainstream for consumers, reaching 1 million users just 5 days after launch and 100 million monthly active users by January 2023 just two months later, making ChatGPT one of the fastest growing consumer applications ever. Today, ChatGPT now boasts over 1.5 billion monthly visits, making it one of the top 20 websites in the world. (1)
- Role of Data Centers in Supporting Artificial Intelligence: These new emerging AI applications rely on the availability of and capability to process in real-time vast amounts of data leading to a growing demand for data centers to store, process, and analyze this information. As more organizations and consumers adopt Al there continues to be a significant rise in data generation in the data center as Al workloads include applications based on machine learning and deep learning. It is projected that half of all data centers will be used to at least partially support AI programs by 2025. As a result, by 2030 it is expected that 30% of all data center server infrastructure spend will go towards serving AI or related workloads, up from just 2% in 2020. (4,5)
- Artificial Intelligence is Reshaping the Data Center: Data centers are evolving to better support their Al workloads with specialized buildings, enhanced power, sustainable cooling technologies (e.g. zero water), and advanced hardware. At the same, Al also presents new opportunities to improve and automate certain operations within the data center. Through deeper integration with AI enabled functions such as IoT, smart sensors, and predictive analytics data centers can better optimize their performance and manage their components. For example, Google cites being able to reduce 40% of its data center's cooling costs just by controlling its cooling infrastructure through Al programs. (6)

GROWING DEMAND FOR ARTIFICIAL INTELLIGENCE APPLICATIONS (1,2)

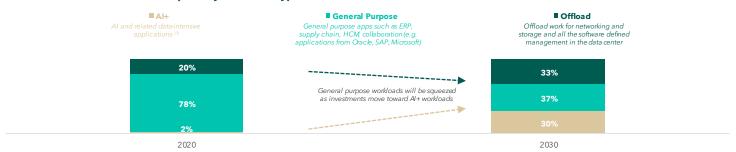


ILLUSTRATIVE LIFECYCLE OF AN EDGE AI APPLICATION (3)



SHIFT OF FOCUS IN THE DATA CENTER (5)

Data Center Server Infrastructure Spend By Workload Type



Sources: 1) Company public announcements, Reuters, Statista, EconomicTimes; 2) Precedence Research, Artificial Intelligence (AI) Software Market Forecast 2023-2032; 3) JLL, "Hyperscale and edge drive data center demand as the rise of AI takes center stage"; 4) Terasol Technologies, "What is Edge AI-The New Wave of AI?"; 5) Wikibon Research, 2021; 6) Google DeepMind, "DeepMind AI Reduces Google Data Centre Cooling Bill by 40%"; 7) Includes real-time analytics, AI inferencing, robotics, autonomous vehicles, and other data-driven real-time or near real-time use cases

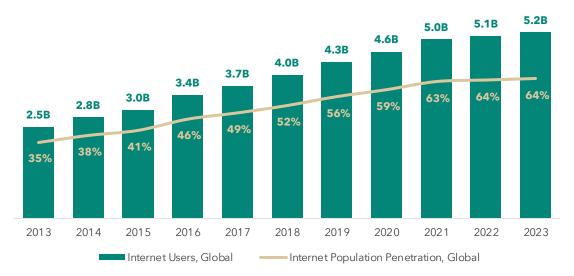


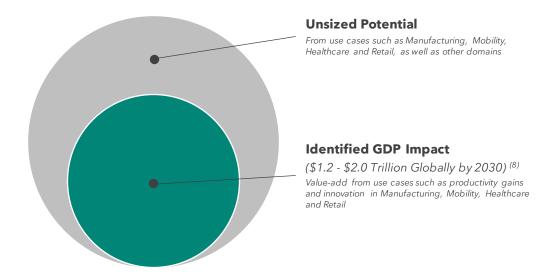
5G Rollout Is Poised To Supercharge Network Speeds and Data Usage

- 5G is the fifth generation of cellular mobile communications and represents a fundamental shift in communication network architectures, promising lower latency, higher bandwidth and much greater speeds relative to its predecessors. Major players in the transformation to 5G include telecommunications services providers, transmission equipment makers, antenna manufacturers, and data center infrastructure providers. (1)
- 5G is driving a number of new connected services that were not previously possible, or harder to accomplish at scale with 4G. Core 5G use cases include enhanced mobile broadband, mission-critical communications, and massive IoT, although increasingly relevant use cases include self-driving automobiles, virtual reality and augmented reality, edge computing acceleration, smart factory 4.0, smart cities and buildings, and energy preservation applications.
- 5G must be deployed across network infrastructure at every stage, and billions of dollars of capex will be needed. While 5G could take years to achieve ubiquity, it is already a massive market with strong momentum and is becoming increasingly deployed.
 - The worldwide 5G market size is projected to reach \$720 billion by 2030, primarily comprised of mobile services, fixed wireless services, and narrow-band IoT. Specifically, 5G contribution to United States GDP by 2030 is expected to eclipse \$484 billion, doubling the economic gain accruing to the next closest country. (2)
 - 5G commercial rollouts continued to accelerate, reaching 238 deployed 5G networks in 94 markets worldwide by December 2022. (3)
 - Worldwide 5G connections are projected to grow at a CAGR of 40% from 1.1 billion in 2022 to 5.9 billion by the end of 2027. (4)
 - Wireless capital expenditures for major carriers such as T-Mobile, AT&T, Verizon and Dish are projected to begin ramping up significantly over the next 5 years with these carriers expected to spend 41% more a year on average in capex through 2025, in comparison to annual capex spending in years 2018-2020. (5)

5G IS POISED TO SUPPORT A MASSIVE AND GROWING WORLD OF INTERNET USERS (6)







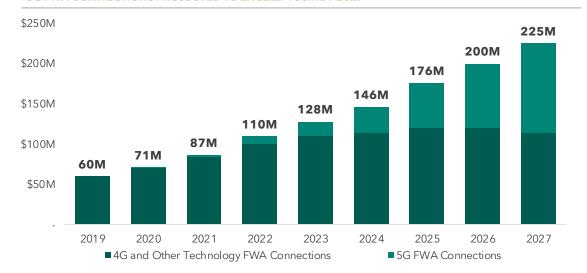
Sources: 1) Qualcomm, 'Everything you need to know about 5G'; 2) IDTechEx, '5G Technology, Market and Forecasts 2020-2030' (1/12/2021); 3) S&P Global Market Intelligence (2/21/2023); 4) 5G Americas, 'Exploding 5G Adoption Continues Around The World' (December 2022); 5) Credit Suisse, 'American Tower - 1Q Preview - Pos. Well for C-Band Act...' (April 2021); 6) DataReportal, 'Digital Around The World' (January 2023); 7) McKinsey Global Institute, 'Connected World'; Segment of distinctive B2B use cases



Fixed Wireless: Early Days of Mainstream Commercial Growth

- **Growth story supported by underlying economics:** 5G provides access to home and enterprise broadband through fixed wireless access (FWA). While FWA has been around for over a decade (3G, 4G), 5G FWA offers speeds up to 10x previous generations of fixed wireless and is competitive with DSL, cable, and fiber broadband providers. (1) With the diminished gap in performance, FWA offers compelling economics, given the relative ease of deploying infrastructure. In the words of Nokia President of Network Infrastructure, Federico Guillén, "...there is always going to be a remaining 10, 20, 30% of the population where it's impossible to lay fiber because economically it doesn't make sense .. In those cases, fixed wireless is a complement, a nice complement to fiber." (2)
- FWA is a particularly attractive option to provide broadband service to areas challenged by zoning restrictions and density issues (for example, multi-dwelling unit communities). FWA is also a viable broadband solution to serve communities with under-developed existing broadband, as well as a solution for enterprises. (2) Interestingly, FWA solutions had higher NPS customer experience scores compared to fiber, cable, and DSL. (3)
- Increasing market opportunity as carriers increasingly focus on 5G FWA as a growth lever: 2022 gave the first substantial evidence of commercial acceleration as 5G FWA became a tangible growth opportunity for US carriers. T-Mobile set a goal of 7-8M FWA subscribers by the end of 2025 representing 20-30% penetration of potential homes. Verizon, too, set an end of 2025 target of at least 1M FWA business customers. While carriers are likely to add FWA subscribers easily in the near-future eventual capacity constraints could cap growth. (4)
- Recent mainstream momentum and investor focus: By the end of Q3-2022, T-Mobile was serving over 2M high-speed internet customers (the majority being FWA) a new segment in the past 18 months with 578,000 added in the third quarter. (5) Verizon, which initially offered 5G FWA in 2018, added 342,000 fixed wireless customers in Q3, with a split of customers between home and business segments. (6) Verizon is expected to continue accelerated FWA build-out to compete with T-Mobile, which is widely seen as the FWA leader in terms of customers and coverage. Investors, too, are leaning into the growth story highlighted by Northleaf Capital Partners' \$230M buyout of Mercury Broadband in November 2022.

5G FWA CONNECTIONS PROJECTED TO EXCEED 100M BY 2027 (1)



5G FWA SPEEDS CAPABLE OF RIVALING CONVENTIONAL BROADBAND⁽¹⁾

| | Technology | Download Speed Range (Average) | | | |
|-----------|-------------------------|--------------------------------|--|--|--|
| DSL | ADSL/ADSL2+ | 24 Mbps | | | |
| | FTTC / VDSL2 | 200 Mbps | | | |
| | G.Fast | 100 Mbps - 1 Gbps | | | |
| Fiber | FTTP/H | 2.4-40 Gbps | | | |
| Cable | DOCSIS 3.1 | 10 Gbps | | | |
| Satellite | LEO Satellite Broadband | 50-500 Mbps | | | |
| FWA | LTE (4G) | Up to 100 Mbps | | | |
| | 5G | 1-10 Gbps* | | | |

Sources: 1) GSMA Intelligence - 5G fixed wireless: a renewed playbook; 2) Fierce Wireless: T-Mobile beats AT&T in phone net adds in Q3, posting 854k; 6) Fierce Wireless: Verizon Fios gains 61K subs, pushing base past 7M



Fiscal Stimulus Is Supporting The Development of Broadband Infrastructure

BRIDGING A DIGITAL DIVIDE

Meeting Needs of **Underserved Communities**

Prior to the COVID-19 pandemic, states and carriers began organizing to facilitate broadband access for underserved areas of the United States. Currently, more than 42 million Americans lack any broadband access. (1,2)

Communities without reliable high-speed internet service lack the same opportunities existing in neighborhoods with a more robust network. Oftentimes, wireless is the preferred method used to connect underserved communities.

The government is prepared to spend a significant amount of dollars in order to bridge this digital divide. In November 2021, President Joe Biden signed a \$1.2 trillion infrastructure bill (Infrastructure Investment and Jobs Act) that includes \$65 billion for broadband, expanding internet access to more Americans in efforts to close the digital divide.

TOTAL FEDERAL STIMULUS

Rural Digital Opportunity Fund (RDOF) (3,4)

- \$20.4 billion 10-year fund established by the FCC in January 2020 to bring reliable and affordable high speed fixed broadband service to rural areas
- · \$640 million in broadband funding by the FCC for nearly 300 carriers in 47 states serving over 2.6 million locations
- · In the Phase I auction (Auction 904), 180 bidders won \$9.2 billion to provide broadband to 5.2 million locations.

Consolidated **Appropriations Act, 2021** (CAA) (5)

- \$7.2 billion allocated for broadband projects to support broadband access for students, families and unemployed workers
- · Broadband provisions focused on building out network infrastructure in underserved communities with significant "rip and replace" efforts

RAPIDLY GROWING MARKET FOR PUBLIC SAFETY IN-BUILDING DAS

Public Safety Distributed Antenna Systems (DAS)

Virtually every city in the U.S. and Canada has enacted local ordinances and building codes making in-building coverage for first responders mandatory.

These government regulations to enable first responder communications are driving the demand for public safety DAS products and are often required prior to receiving an occupancy permit. As a result, the global market for public safety in-building DAS is expected to grow at 31% CAGR through 2027.

The public safety DAS market includes FirstNet, an entirely new network focused on first responders that began deployment in 2018 with AT&T. The network is federally mandated and its purpose is to create a nationwide blanket of coverage for first responders.

Connect America Fund (CAF) (6)

As of November 17, 2022, total winning bids for Phase II Auction of the Connect America Fund had amounted to \$1.5 billion support network construction in the coming years (3)

· A majority of companies accepting CAF Phase II support have six years to plan and deploy broadband to consumers

Broadband Equity, **Access and Deployment** (BEAD)

Provides \$42.45 billion to expand high-speed internet access by funding planning, infrastructure deployment and adoption programs in all 50 states. Washington D.C., Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands

GLOBAL PUBLIC SAFETY IN-BUILDING WIRELESS DAS MARKET SIZE (11)

(\$USD billions)

| | | | 31% Total CAGR \$3.8B \$5.0B | | | | | | |
|--------|--------|--------|------------------------------|--------|--------|--------|--------|--------|--|
| \$1.0B | \$1.3B | \$1.7B | \$2.2B | \$2.9B | \$3.8B | \$5.0B | \$6.5B | \$0.05 | |
| 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | |

Additional Federal Broadband Funding

- · \$1.9 trillion American Rescue Plan Act of 2021 establishes \$10 billion Capital Project Fund to deploy critical capital projects (8)
- CARES Act included \$150 billion to cover expansion of connectivity (9)
- · \$1.2 trillion Infrastructure Investment and Jobs Act signed in November 2021 includes \$65 billion for broadband, expanding internet access to more Americans (10)

Sources: 1) BroadbandNow Research, 'BroadbandNow Estimates for all 50 States' (October 2022); 2) Microsoft; 3) Federal Communications Commission (1/29/2021); (3/10/2022); (3/



Emerging Applications In Private Networking

IMPLEMENTATION OF PRIVATE BROADBAND SYSTEMS IN THE U.S.

- · Rather than relying on public networks, organizations have begun deploying private networks to provide wireless broadband connectivity while maintaining control of the system. This grants organizations access to the benefits of on-premise traffic, including improved speed, latency, security, and privacy.
- · The private LTE market globally reached an estimated \$5.6 billion in 2022, and is projected to grow to \$10.6 billion by 2027, representing a CAGR of 14%. Some key drivers shaping market outlook are the availability of unlicensed spectrum, growing demand in industrial and commercial IoT, and mobile robotics and machine learning. (1)
- Cellular in-building DAS systems are becoming a critical part of both carrier cellular networks and enterprise infrastructure, and the market is expected to grow at a 13% CAGR through 2025. (2)
- DAS provides a high capacity network within locations that would typically overload a local network (stadiums, airports, colleges, music venues, etc.) or would normally not allow for usable signals to reach users (high-rise buildings, concrete-walled structures, etc.). Because so many new builds utilize materials that block RF signals, internal DAS systems will play an integral role in delivering uninterrupted coverage.

PRIVATE NETWORKS HELP COMPANIES GO GREEN

- · Private wireless networks are helping companies conserve energy and reduce their carbon footprint by using cellular networks to monitor HVAC equipment, giving them more control over power consumption. Some companies report that their networks can produce a 25% decrease in energy consumption and 75% decrease in wastewater. (3)
- · By mid-year 2022, 89% of global investors consider ESG as a component of their investment approach, according to a report published by Harvard Law School Forum on Corporate Governance. (4) As a result, CEOs around the world have become increasingly focused on reducing emissions. Private broadband could play an important role in supporting those objectives, especially in conjunction with data analytics technologies like edge computing.
- · Further bolstering this trend is the FCC's 2020 ruling granting U.S. utilities access to more of the spectrum available for private wireless broadband. The change will allow utilities developing LTE networks to perform real-time monitoring and active control of their energy distribution systems, per Pixabay. (5) The benefits of the change have begun to be realized since the Wireless Telecommunications Bureau started accepting applications for the 900MHz segment in 2021. with the most recent grant in November '22 going out to nine applicants. (6)

DISRUPTIVE POTENTIAL OF PRIVATE BROADBAND ACROSS A VARIETY OF SECTORS (7)



Healthcare

The use cases for networks in healthcare endless. Expansive sites like hospitals benefit from broader coverage. increased speed and reliability, as well as improved security to protect sensitive patient information.



Agriculture

Farmers using real-time IoT devices delivered over private networking systems can expect to see remarkable increases in profitability. These benefits are derived primarily through the cost reductions and efficiency boosts associated with these IoT products.



Mining

benefits private broadband in mining operations are two-fold. First, mining relies on large amounts of data, which is more efficiently handled over a private network. Second, mining sites occupy large, often rural areas, which limits high-speed using public coverage broadband.



Transportation

Private networking interference in high-traffic areas like airports and train stations. Private networks also support the growing demand for high-speed data transfer necessary for advanced fleet monitoring and logistics.



Education

Schools turned to networks to better serve rural students during the pandemic. While many schools have reinstated pre-pandemic norms. they will still benefit from the ease of deployment, reliability, and cost-effectiveness of private broadband.

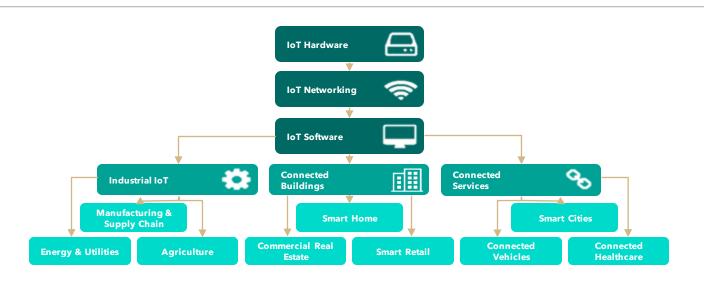
Sources: 1) Allied Market Research, 'Private LTE Market' (January 2021); 2) Mordor Intelligence, 'In-Building Wireless Market - Growth, Trends, Covid-19, Impact and Forecasts'; 3) Fierce Wireless, 'Private Networks to get a Boost from FCC Ruling on 900 MHz Band' (8/14/2020); 6) FCC, 'WTB Grants Nine Broadband Segment Applications' (November 2022); 7) Bling Networks, 'How Private LTE and CBRS will Revolutionize These 5 Sectors in 2021 and Beyond' (December 2020)6b



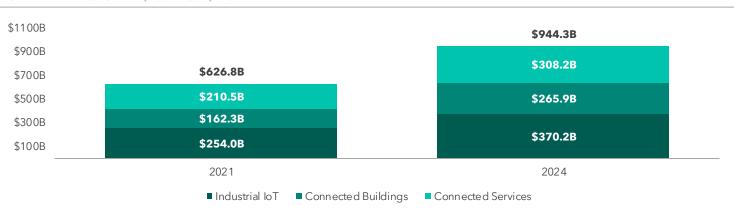
IoT Is Fueling Innovation Across The Data and Communications Landscape

- The Internet of Things (IoT) is a network of assets containing embedded technology to communicate, sense and interact with their internal states or external environment.
- IoT is a major enabling technology for radical digital change in many core industries; some examples include:
 - Machine connectivity and factory automation in manufacturing
 - Smart city connectivity (parking meters, traffic lights, etc.)
 - · Physical security and surveillance in the smart home
 - · Preventive patient monitoring in healthcare
- Actionable and real-time data being collected by interconnected IoT devices provides the potential to transform the above industries via increased analytical decision making.
- End market expansion is driving the global IoT market which is projected to grow from \$626.8 billion in 2021 to \$944.3 billion in 2024. (1)
- IoT is developing into a more mature market with attractive growth opportunities and several factors driving its growth:
 - The spread of mobile devices with advanced sensors has dramatically enhanced data collection and transmission efficiencies.
 - Powerful analytical tools including Al & ML are bolstering the value of IoT data through predictive inferencing.
 - Increasing speed of connectivity driven by expanding cloud infrastructure, edge computing and the continuous deployment (expanding reach) of 5G networks is making it easier to integrate IoT devices.
- VC activity has propelled the IoT market in recent years, although it cooled down in 2022. IoT companies raised \$15.1 billion in VC capital across 1,470 deals in 2022, a 29% decrease in deal value relative to 2021. (2)

CURRENT STATE OF THE IOT VALUE CHAIN (3)



IOT MARKET BY SEGMENT, 2021-2024, WORLDWIDE (3)



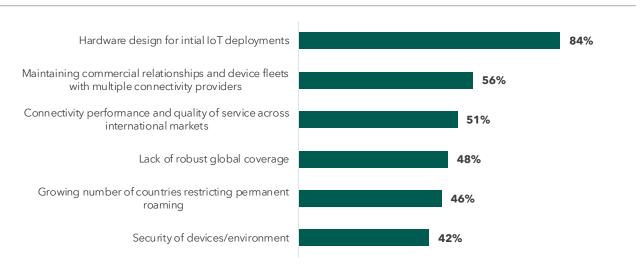
Sources: 1) Fortune Business Insights Internet of Things Market' (May 2021); 2) Pitchbook 'H2 2022 Internet of Things (IoT) Report' (February 2023); 3) Pitchbook 'Emerging Tech Research: Internet of Things (IoT) H2 2020' (March 2020)



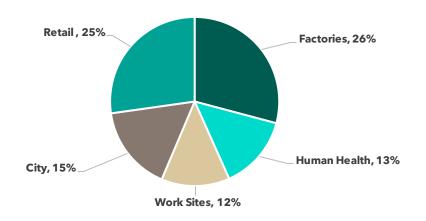
IoT Evolving Beyond Connectivity As Short-Term Headwinds Subside and Tech Leaps Forward

- **Slower-than-anticipated adoption:** Enterprise adoption of IoT has lagged behind expectation, as more than 97% of enterprises reported IoT projects to be <50% successful. Top challenges included hardware design (84%), managing commercial relationships with multiple service providers (56%), and poor connectivity across international markets (51%).⁽¹⁾ As a result a majority of IoT project struggled to scale beyond pilot phase.
- Advances in tech improving value proposition: However, recent tech advances are bridging inherent scaling challenges:
 - **5G:** Rapid next-generation network deployment enables private networks, connectivity options (backbone of IoT) and performance.
 - eSim & eUICC: Improved security, removing barriers for multi-carrier and international mobility, and OTA provisioning for mobility.
 - **Edge computing:** Critical infrastructure for service beyond connectivity, enabling layered software services and advanced analytics.
- Short-term headwinds are starting to subside:
 - **Supply chain constraints:** International wafer shortages are slowly easing, decreasing hardware-related deployment lags.
 - **Network sunsets:** 2G/3G carrier sunsets within the United States were expected to terminate by the end of 2022, alleviating the migration risk for IoT connectivity providers.⁽³⁾
- Evolution beyond connectivity to vertical solutions and value-added services driving B2B adoption and ARPU growth: Vendors are leveraging technology to ease deployment friction and improve value proposition through additive services.
 - Vertical solutions: Vertical-specific expertise among IoT connectivity providers is often
 the most important criteria for enterprises.⁽¹⁾ As the economic value for IoT is highly
 concentrated within select verticals, successful IoT vendors are developing verticalspecific solutions.
 - **IoT analytics:** Vertical solutions are empowered by greater analytics capabilities (which are enabled by the proliferation of edge compute); for example, remote blood-pressure monitoring and real-time MRI analysis within healthcare settings.
 - **Value-added services:** Expansion into value-added services beyond connectivity (including analytics, video, and vertical-specific applications) will drive higher ARPU after reductions from legacy network migrations.

HISTORIC CAPABILITY GAPS PREVENTING ENTERPRISE IOT ADOPTION (1)



ECONOMIC IMPACT OF IOT CONCENTRATED WITHIN KEY VERTICALS (4)



Sources: 1) Computer Weekly.com, "Hardware and commercial flexibility issues slow down IoT adoption" (June 2022); 2) GSMA Intelligence - "eSim: State of the consumer market and the road ahead" (March 2021); 3) CTIA - "What to know about the sunsetting of 2G/3G Networks in Preparation for 5G"; 4) McKinsey & Company - The Internet of Things: Catching up to an accelerating opportunity (November 2021)

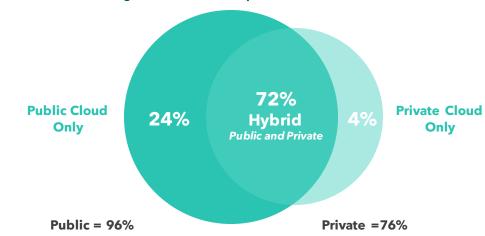


Enterprises Are Embracing Cloud Hybridization Strategies

- Hybrid-cloud models are implemented when enterprises utilize both public and private cloud infrastructure to host data and workloads. Hybrid strategies allow organizations to realize the power of public cloud computing along with the security and control of a private network.
- Most organizations are using hybrid cloud architecture to protect and control their data while still managing and analyzing it in a public cloud environment, alleviating some security concerns. Though, the overall percentage of organizations with a hybrid cloud decreased from 80% in 2022 to 72% in 2023 as public cloud only adoption continued to accelerate. As of 2023, the usage of multi-cloud security tools and cost management tools across all organizations was 30% and 29%, respectively. (1)
- The most common multi-cloud enterprise approach is a mix of multiple public and private clouds, providing a superior option to address the rapidly evolving cloud usage needs presented by the COVID-19 pandemic's impact on business.
- Hybrid cloud strategy goes hand in hand with other core trends in enterprise networking:
- Software Defined Networking: Software-defined data center technologies are becoming more widespread and allow server virtualization and containerization into software form, enabling multiple users to install and manage their own services on the same physical server.
- **Co-Location:** A colocation data center is a physical facility that offers space with the proper power, cooling and security to host businesses' computing hardware and servers. This allows businesses to centralize their IT operations and create an efficient architecture, that can reduce costs.
- **Edge Computing:** By 2023, edge networks are projected to represent over 60% of all deployed cloud infrastructure. Workforce and operations practices fueled by COVID-19 provide an opportunity to continue to accelerate the delivery of infrastructure, application and data resources in edge locations. (2)

MULTI-CLOUD IS THE PREFERRED STRATEGY AMONG ENTERPRISES (1)





#1 ENTERPRISE CLOUD PRIORITY IS MANAGING SPEND (4)

Top Cloud Priority for Enterprises Surveyed



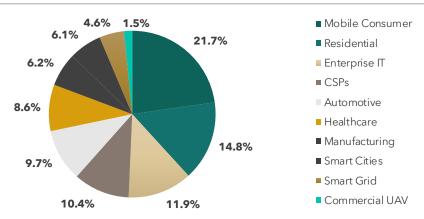
Sources: 1) Flexera, '2023 State of the Cloud Report'; 2) The Linux Foundation, '2021 State of the Edge' (March 2021)



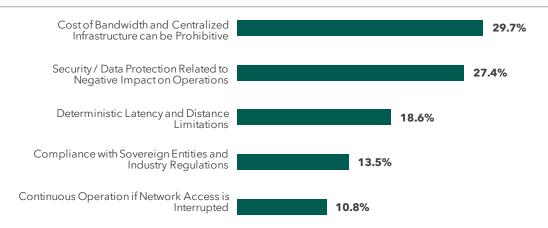
Cloud Computing Is Moving To The Edge

- Edge computing brings data and computations closer to the device, expanding the reach of core cloud networks and pushing key processing functions to the edge of the network, closer to where the data itself is gathered by endpoints such as PCs, phones, industrial sensors, connected cars, and wearables.
- The case for edge computing is rapidly increasing with 5G, AI/ML and IoT technologies converging to create the need for real-time computing at edge locations. Edge computing is faster, more scalable, and more reliable for critical IoT applications as opposed to traditional cloud computing which requires transferring data to a central server location that can be thousands of miles away.
- Edge computing enabling technologies are a major opportunity for emergent and existing IT stakeholders. IDC has identified over 150 use cases for edge computing, with the greatest investment dollars pouring into content delivery networks and virtual network functions. (1)
- Global edge computing spending is projected to reach \$274B by 2025, up from \$176B estimated in 2022, representing a 15.9% CAGR over the period. This boom is primarily driven by the exponential growth in data creation, capture, copy, and consumption expected over the next several years as well as the demand for low-latency processing, data protection and computing capabilities at reduced cost. Among a plethora of other use cases, edge computing adoption will spark monumental improvements in global security by enabling edge-based threat detection, data minimizations, and decentralized infrastructure. (2)

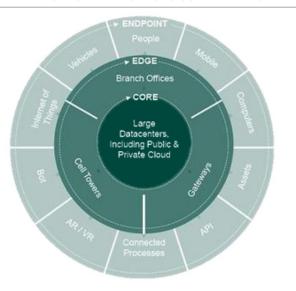
BY 2028. THE GLOBAL INFRASTRUCTURE EDGE WILL SUPPORT 10 KEY APPLICATIONS (4)



PRIMARY MOTIVATIONS DRIVING EDGE COMPUTING INVESTMENT (4,5)



DATA PROPAGATION IS EXPANDING FROM ENDPOINTS TO CORE AND BACK (3)



Sources: 1) IDC, Worldwide Edge Spending Guide (Jan 2022); 2) ReportLinker, 'Edge Computing Market with COVID-19 Impact - Global Forecast to 2026' (Nov 2021); 3) Bond Capital, Mary Meeker 'Internet Trends 2019' (May 2019); 4) The Linux Foundation, 'State of the Edge 2021' (Mar 2021); 5) IDC, 'Edge Computing Solutions Powering the Fourth Industrial Revolution (Jan 2021)



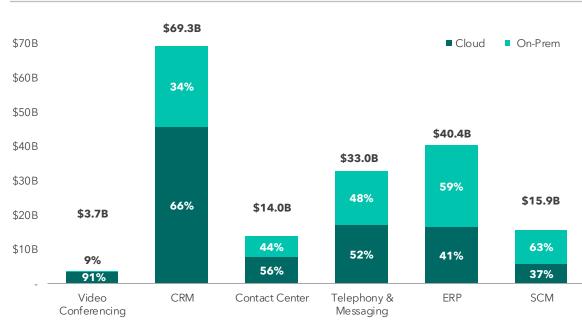
UCaaS Is Seamlessly Connecting Workforces That Are More Widely Distributed Than Ever

- Unified Communications as a Services (UCaaS) is the modern as-a-service model of the traditional unified communications concept, which includes critical business communication functions such as voice and telephony, video and audio conferencing, real-time messaging and presence.
- The traditional unified communications model requires businesses to acquire, install, manage and update onsite infrastructure to facilitate local and long-range business communication. UCaaS is alternatively hosted by a provider, making disruptive, leading edge communications technologies more accessible to businesses of all sizes by avoiding the initial expenses often associated with setting up an advanced communications strategy.
- Adoption of cloud-based UCaaS solutions remains in the low single digits, with the alternative solutions of on-premises accounting for an estimated 97% of the market. This is primarily attributable to the hurdles associated with transferring historically hardware-centric systems coupled with the security, availability, and cost concerns of enterprises. (5) COVID-19 served as a catalyst for cloud adoption, driving companies to allocate spend away from physical infrastructure and accelerating the shift towards hosted UCaaS solutions, enabling distributed workforces to seamlessly communicate in more flexible and agile ways.
 - U.S. businesses lose \$1.2 trillion per year as a result of poor communication. (1)
 - Digital transformation is a top business imperative for most companies, considering 60% of surveyed CIOs reported significant budgeted investment in 2022. C-level executives were optimistic that spending increases would double their return on digital investments in 2022 compared to 2021. (2,3)

THE LARGE UCaaS MARKET IS EXPERIENCING RAPID GROWTH (4)

\$250B \$200B \$150B \$100B \$100B \$20.7B \$20.7B \$25.5B \$31.5B \$38.7B \$47.8B \$59.1B \$73.0B \$202 2022 2023 2024 2025 2026 2027 2028

CY20 ENTERPRISE & COMMUNICATIONS SOFTWARE END-USER SPEND (5)



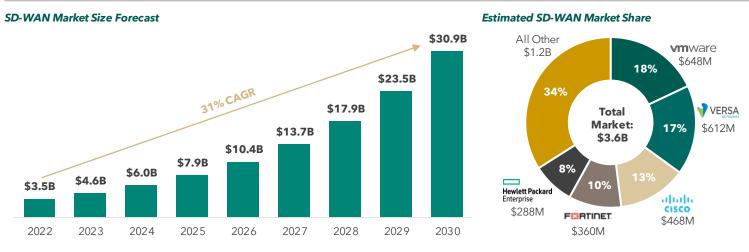
Sources: 1) Grammarly, 'The State of Business Communication' (January 2022); Harris Poll; 2) PwC, Pulse Survey (January 2022); 4) Grand View Research, 'Unified Communication As A Service Market Size, Share & Trends Analysis Report By Deployment (Public Cloud, Private Cloud), By Industry Vertical, By Region, And Segment Forecasts, 2021 - 2028' (March 2021); 5) UBS Global Research, 'The Future of Communications as a Service' (5/26/2021)

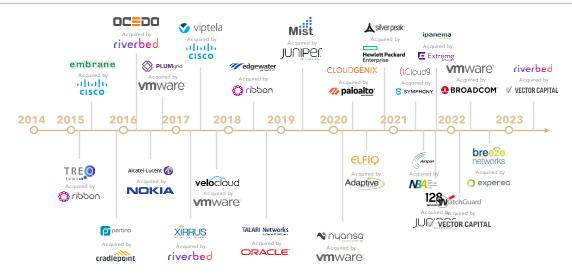


SD-WAN Is Bringing Principals Of The Cloud To Network Management

- SD-WAN (software-defined wide area network), is a software approach to managing wide area networks (WANs) to offer ease of deployment, central manageability, reduced costs, and improved connectivity to branch offices and the cloud. SD-WANs are programmatically configured and managed so they can effectively and affordably meet changing business needs.
- Enterprise adoption of SD-WAN technologies is rapidly accelerating to keep pace with the large shifts towards consumption of cloud-based applications "at the edge".
 - The growing demand for remote worker access as a result of COVID-19 has driven a move away from remote VPN and towards SD-WAN solutions.
 - SD-WAN traffic was expected to account for 29% of WAN traffic in 2022 and grow at a 37% CAGR going forward. (1)
 - The SD-WAN market size totaled over \$3.5 billion in 2022 and is expected to reach \$30.9 billion by 2030, representing a CAGR of 31.2% ENTERPRISE NETWORKING INCUMBENTS ARE BUYING SHARE IN THE SD-WAN MARKET over the forecast period. (2)
 - By 2025, to deliver flexible, cost-effective scalable bandwidth, 40% of enterprise locations will have only internet WAN connectivity, compared with 15% in 2021. (3)
 - Many enterprise networking incumbents are attempting to gain a foothold or leadership position in the large and crowded SD-WAN market. As a result, there has been rapid vendor consolidation in the space with 20+ acquisitions in the past eight years by large strategic providers. While much of the market is still up for grabs, VMWare, Versa Networks, and Cisco have strong leadership within the worldwide SD-WAN market.

SD-WAN MARKET IS LARGE & RAPIDLY EXPANDING, AMPLE MARKET SHARE REMAINS (2, 4)





Sources: 1) Qualcomm, 'Everything you need to know about 5G'; 2) IDTechEx, '5G Technology, Market and Forecasts 2020-2030' (1/12/2021); 3) S&P Global Market Intelligence (2/24/2022); 4) 5G Americas, 'Exploding 5G Adoption Continues Around The World' (December 2022)





Communications Technology Market Landscape



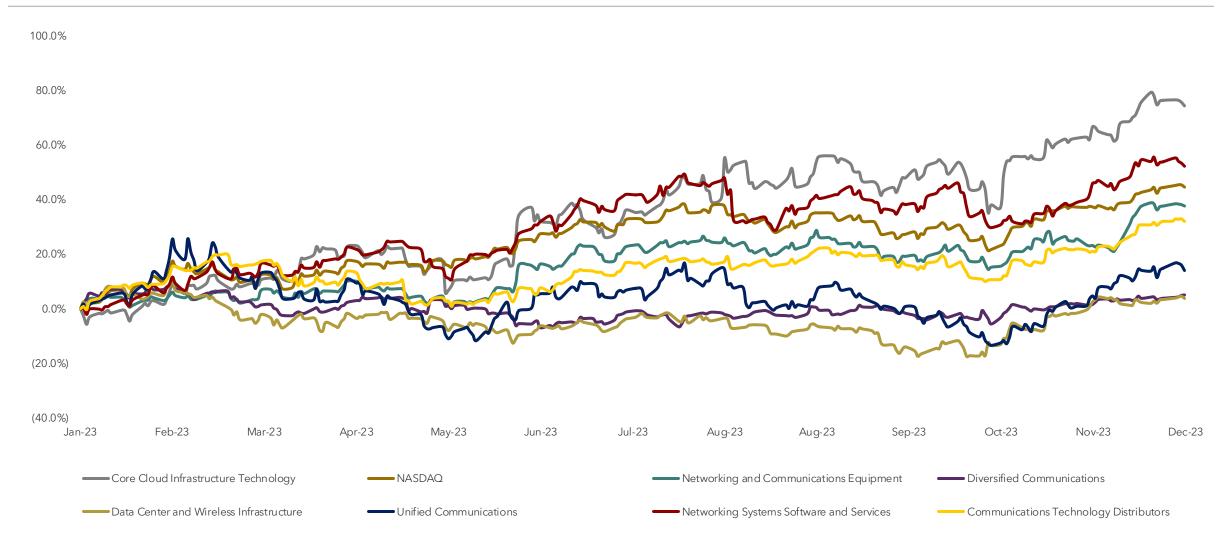






Cloud Infrastructure and Communications Public Market Performance

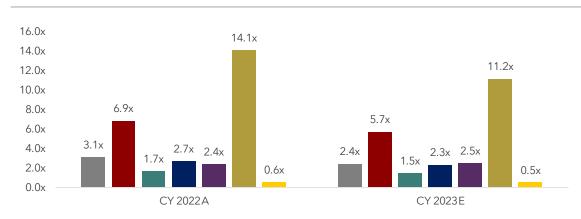
RELATIVE INDEX PERFORMANCE (1)



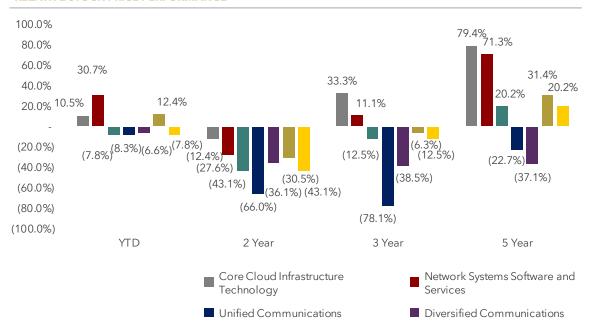


Relative Valuation and Trading Detail By Sector

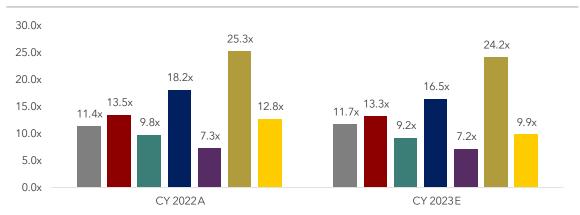
VALUATION MULTIPLES: EV / REVENUE(1)



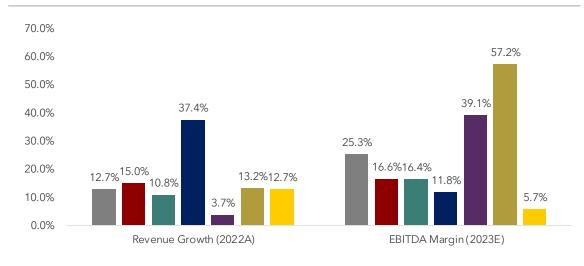
RELATIVE STOCK PRICE PERFORMANCE(1)



VALUATION MULTIPLES: EV / EBITDA(1)



GROWTH AND MARGIN CONSENSUS ESTIMATES(1)



Networking & Communications Equipment

Data Centers and Wireless Infrastructure

Communications Technology
Distributors



Public Company Trading Details

| Control Cont | JSD in millions, except per share data) | | Capital | lization | | Share Price P | erformance | | Price / Ea | rnings | EV / Rev | renue | EV / EB | BITDA | Reve | nue | Revenue | Growth | Gross M | argin | EBITDA | Margin |
|--|--|----------|----------|----------|---------|---------------|------------|---------|------------|--------|----------|-------|---------|-------|---------|---------|---------|--------|---------|-------|--------|--------|
| Application 1979 1972 1972 1972 1973 1974 1975 | ompany | | | | YTD | 2 Year | 3 Year | 5 Year | 2022A | 2023E | 2022A | 2023E | 2022A | 2023E | 2022A | 2023E | 2022A | 2023E | 2022A | 2023E | 2022A | 2023E |
| Alle Markedon (LAMP) Alle 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ore Cloud Infrastructure Technology | | | | | | | | | | | | | | | | | | | | | - |
| Lamber Sections L. P. C. | 10 Networks, Inc. (ATEN) | \$13.17 | \$976 | \$825 | (20.8%) | (20.6%) | 33.6% | 111.1% | 10.7x | 16.8x | 3.3x | 3.2x | 13.0x | 11.5x | \$250 | \$256 | 10.9% | 2.5% | 78.8% | 80.2% | 25.3% | 28. |
| Files | rista Networks, Inc. (ANET) | 235.51 | 73,267 | 68,860 | 94.1% | 63.8% | 224.2% | 347.1% | NM | 32.4x | 23.4x | 11.8x | NM | NM | \$2,948 | \$5,850 | 27.2% | 98.4% | 64.7% | 61.9% | 39.2% | 30. |
| Note | ktreme Networks, Inc. (EXTR) | 17.64 | 2,286 | 2,308 | (3.7%) | 12.4% | 156.0% | 189.2% | NM | 11.6x | 2.1x | 1.7x | 14.8x | 14.4x | \$1,080 | \$1,332 | 19.6% | 23.3% | NA | NA | 14.4% | 12. |
| Nethers of professor | 5, Inc. (FFIV) | 178.98 | 10,686 | 10,164 | 24.7% | (26.9%) | 1.7% | 10.5% | 32.1x | 14.1x | 3.8x | 3.6x | 10.7x | 12.0x | \$2,666 | \$2,785 | 10.8% | 4.5% | NA | NA | 35.5% | 30. |
| Part | etApp, Inc. (NTAP) | 88.16 | 18,164 | 18,200 | 46.8% | (4.2%) | 33.1% | 47.7% | 19.4x | 13.8x | 2.9x | 3.0x | 11.4x | 10.8x | \$6,193 | \$6,075 | 10.8% | (1.9%) | NA | NA | 25.8% | 27. |
| Resource (E) (CMA) 16.06 70 390 (15.58) 59.59 15.50 15. | The state of the s | 21.95 | 1.558 | | (32.5%) | | (19.9%) | (7.1%) | 29.1x | 9.3x | 1.6x | 1.7x | NA | NA | \$878 | \$828 | 3.6% | (5.6%) | NA | NA | NA | |
| Marchan | | | | | | | (39.9%) | | NM | | 1.4x | 1.5x | 8.0x | 9.2x | | | | | 82.5% | 83.1% | 16.9% | 16. |
| Memoring Systems and Sarotines 10.56 12. | uper Micro Computer, Inc. (SMCI) | 284.26 | 15.877 | 15.506 | 246.2% | 546.8% | 797.9% | 1959.9% | NM | 14.5x | 3.7x | 1.9x | NM | 21.5x | \$4.170 | \$8.154 | 27.9% | 95.5% | NA | NA | 4.7% | 8. |
| ## Part September Septembe | | | | | 10.5% | (12.4%) | 33.3% | 79.4% | 24.3x | 14.3x | 3.1x | 2.4x | 11.4x | 11.7x | \$1,873 | \$2,059 | 12.7% | 3.5% | 78.8% | 80.2% | 25.3% | 27. |
| Beginner (Inc (ECOP) 12.9 11.3 11.9 69.05 (A.78) (B.98) (B.226) 19.05 12.6 0.6 0.6 5.6 6.0 5.21 5.21 5.21 7.05 (A.78) 6.05 | etworking Systems Software and Services | | | | | | | | | | | | | | | | | | | | | |
| Beginner (Inc (ECOP) 12.9 11.3 11.9 69.05 (A.78) (B.98) (B.226) 19.05 12.6 0.6 0.6 5.6 6.0 5.21 5.21 5.21 7.05 (A.78) 6.05 | | \$118.35 | \$17,851 | \$20,205 | 40.4% | 1.1% | 12.7% | 93.8% | 29.5x | 17.6x | 5.8x | 5.3x | 13.0x | 13.3x | \$3,461 | \$3,814 | 8.2% | 10.2% | 63.9% | 62.3% | 44.9% | 40.0 |
| Clack Transformer inderentaging Last (CHIP7) 1526 2 72765 14887 21.15 13 | | | | | | | | | | | | | | | | | | | | | 10.0% | 9.2 |
| Coordinate (CRET) \$2.2 \$2.795 \$2.786 \$8.25 \$2.785 \$7.86 | | | | | | | | | | | | | | | | | | | | | 49.0% | 43 |
| Farly, Inc. [SFAY] 1700 | 9 | | | , | | | | | | | | | | | | . , | | | | | 8.8% | 10. |
| Formiser, (e)**TMT)** \$8.8.3 | | | | | | | | | | | | | | | | | | | | | (9.8%) | (7. |
| Edgo, Le, (COO) 1 0.34 1 00 1 0.20 1 11.34 1 | | | | | | | | | | | | | | | | | | | | | 28.5% | 23. |
| Pick And Networking (CPANN) 294 88 29.79 91.304 11.375 59.79 18.97 29.78 18.97 29.78 18.97 29.98 19.08 19. | | | , , | , | | | | | | | | | | | | | | | | | 6.1% | (2.4 |
| Medical | | | | | | | | | | | | | | | | | | | | | 23.1% | 20.1 |
| Approach Capter (APP) 7.24 5.78 1,137 (60.9%) (70.8%) (50.3%) | | 274.00 | 72,770 | 71,304 | | | | | | | | | | | . , | | | | | | 16.6% | 15.2 |
| Approach Capter (APP) 7.24 5.78 1,137 (60.9%) (70.8%) (50.3%) | etworking & Communications Equipment | | | | | | | | | | | | | | | | | | | | | |
| AmphenolCorporation (APH) 99.13 99.31 99.31 99.31 99.31 99.32 97.2 13.3% 51.5% 144.7% NM 30.7x 5.7x 5.0x 24.9x 20.8x \$10.376 \$1.3276 25.9x 13.8% 31.9% Alva NA | DTRAN Holdings, Inc. (ADTN) | 7.34 | 578 | 1.127 | (60.9%) | (67.8%) | (50.3%) | (31.7%) | NM | NM | 2.0x | 1.0x | NM | 9.9x | \$563 | \$1.149 | 11.2% | 104.1% | 40.0% | 37.5% | (0.1%) | 9.9 |
| Aust Networks Inc. (APMV) 32.66 383 350 47% 18% 913% 932.0% 344 8.2x 12x 10x 98x 8.6x \$2.89 \$2.31 10.8% 21.5% NA NA Bolden Inc. (BOC) 77.25 3.220 3.220 3.220 3.220 4.220 4.820 5.246 4.220 4.820 5.246 4.220 4.820 5.246 4.220 4.820 4.820 4.820 4.820 4.820 4.820 4.22 | | 99.13 | | | 30.2% | | | | NM | 30.7x | 5.7x | 5.0x | 24.9x | 20.8x | | | 26.5% | 13.8% | 31.5% | 31.9% | 22.9% | 24.0 |
| Belden (RDC) 7.25 3.20 3.92 7.4% 17.5% 8.4% 84.9% NM 13.4% 17.2 16x 10.4% 8.9% \$2.30 \$2.82 31.3% 7.8% 55.6% 55.6% Beadcard mire (ADC) 1116.25 \$22.56.5 \$22.5 | | 32.66 | | | | | | 393.0% | 3.4x | | | | | | | | | | | NA | 12.4% | 11. |
| Braden Inc. (AVGO) 116.25 25.25 54.02 99.6% 67.8% 15.49% 39.0% NM 22.8% 19.2% 14.2% NM 25.2% 28.850 33.85.38 15.9% 52.2% 52.2% 52.4% 52.4% 52.6% 52.2% 52.4% | | | | | | | | | | | | | | | | | | | | | 16.4% | 17. |
| Calix, (C.A.X.) Canbium Metworks Carporation (CBM) 6.0 166 167 (C.23.8) (C.45.8) (C. | | | | | 99.6% | | 154.9% | 339.0% | NM | 22.3x | 19.2x | | | 25.2x | | | | 35.2% | | | 60.4% | 56. |
| Cambium Networks Corporation (CMBM) 6.00 166 169 (72.3%) (76.6%) (76.5 | | | | | | | | | | | | | | | | | | | | | 16.0% | 10. |
| Casa Systems,, Inc. (CASA) Casa Systems, Inc. (CASA) Casa Systems, Inc. (CASA) Casa Systems, Inc. (CASCO) Casa Systems, In | | | | | | | | | | | | | | | | | | | | | 15.6% | 15. |
| Clean Corporation (CIEN) 50.52 | | | | | | | | | | | | | | | | | | | | | 11.4% | (21. |
| Cisco Systems Inc. (CISCO) S05.2 205.287 190.114 6.0% (20.3%) 12.9% 16.6% 18.0k 13.0k 3.7k 3.3k 9.9k 10.0k \$51.549 \$56.752 7.3% 10.1% NA NA Clearfield, Inc. (CIET) 29.08 44.4 29.8 (6.91%) (6.56%) (7.45%) (7.90%) (82.8%) NM 3.4k 1.3k 1.5k 9.9k 8.7k 58.887 \$7.060 1.8% (17.8%) 31.4% 30.5% Coming Incorporated (GLW) 30.45 25.979 33.11 47.7k 43.3% 28.5% 6.0k 8.7k 1.2k 1.1k 6.4k 6.1k 22.7k 23.7k 23.676 3.9% 31.4% 30.5% Coming Incorporated (GLW) 30.45 25.979 33.11 47.7k 43.3% 28.5% 6.0k 8.7k 1.2k 1.1k 6.4k 6.1k 22.7k 23.676 3.9% 31.5% (7.86%) 3.9% 3.9k 3.5k 3.5 | | | | | | | | | | | | | | | | | | | | | 18.5% | 11. |
| Clearfield, Inc. (CLFD) 29.08 | | | | | | | | | | | | | | | | | | | | | 37.1% | 33. |
| CommScope Holding Company, Inc. (COMM) 2.82 598 10,798 10,114 1178 118,128 115,438 10,88 2.34x 15x 2.4x 2.4x 2.4x 2.4x 2.4x 2.4x 3.4x 3.5x 514,02 513,51 2.46 67 3,790 31,111 478 31,188 30.58 31,198 30.58 31,198 30.58 31,198 30.58 31,198 30.58 31,198 30.58 31,198 30.58 31,198 30.58 31,198 | | | | | | | | | | | | | | | | | | | | | 20.1% | 36. |
| Coming Incorporated (GUM) 30.45 25,979 33,111 (4.7%) (18.2%) (15.4%) 0.8% 23.4x 15.2x 2.4x 2.4x 8.4x 8.5x \$14,082 \$13,561 24.6% (3.7%) 37.4% 36.5% Hewlett Packard Enterprise Company (HPE) 16.98 22,068 32,20 6.4% 7.7% 43.3% 28.5% 6.0x 8.7x 1.2x 1.1x 6.4x 51.1x 6.4x 51.7912 \$28,766 3.9% 3.1% NA NA Hexatronic Group AB (publ) (HTRO) 2.72 552 86.3 (80.0%) (75.6%) 46.0% 158.5% 18.6x 1.5x 2.2x 0.1x 16.0x 7.5x \$386 \$8,048 52.4% 1984.2% 45.3% 43.0% 11.5x 1.6x 1.6x 1.5x 1.6x 1.6x 1.5x 1.6x 1.6x 1.5x 1.6x 1.6x 1.5x 1.6x 1.6x 1.6x 1.6x 1.6x 1.6x 1.6x 1.6 | | | | | | | | | | | | | | | | | | | | | 12.7% | 17. |
| Hewlater Packard Enterprise Company (HPE) 16.98 22,068 32,220 6.4% 7.7% 43.3% 28.5% 6.0x 8.7x 1.2x 1.1x 6.4x 6.1x \$27,912 \$28,766 3.9% 3.9% 3.1% NA NA NA NA NA NA NA N | | | | | | | | | | | | | | | | | | | | | 28.0% | 28. |
| Hexatronic Group AB (pub) (HTRO) 1.72 1.552 8.63 (80.0%) (75.6%) 46.0% 158.5% 18.6x 1.3x 2.2x 0.1x 16.0x 7.5x 5386 8.048 52.4% 198.42% 45.3% 43.0% 41.0% 4 | | | | | | | | | | | | | | | | | | | | | 17.9% | 18. |
| Huber+Suhner AG (HÜBN) 40.75 1,498 1,368 1,368 (13.5%) (15.4%) 2.2% 21.3% 16.5x 20.4x 1.4x 1.6x 9.7x 9.2x \$94.75 \$97.8 13.5% (7.8%) 37.7% 36.2% 16finer Corporation (INFN) 47.5 1,078 1,657 (29.5%) (50.5%) (54.7%) 19.0% NIM 13.6x 1.2x 1.0x 16.5x 21.2x \$1.42 \$1 | | | | | | | | | | | | | | | | | | | | | 14.0% | 1. |
| Infinera Corporation (INFN) 4.75 1,078 1,657 (29.5%) (50.5%) (| | | | | | | | | | | | | | | | | | | | | 15.0% | 16. |
| Juniper Networks, Inc. (JNPR) 29.48 9,400 9,804 (7.8%) (17.4%) 31.0% 9,6% NM 12.7x 2.1x 1.7x 10.1x 9.2x \$4,735 \$5,603 6.5% 18.3% 59.5% 57.1% | | | | | | | | | | | | | | | | | | | | | 7.1% | 8. |
| Legrand SA (LR) 104.01 27,310 29,689 30.1% (11.1%) 16.5% 84.3% 27.0x 21.7x 3.7x 3.5x 15.8x 14.9x \$7,954 \$8.495 6.6% 6.8% 51.3% 50.3% Lumentum Holdings Inc. (LTE) 52.42 3,512 4,437 0.5% (50.4%) (44.7%) 24.8% 10.1x 23.0x 2.6x 3.1x 7.4x 7.7x \$1,707 \$1,426 0.3% (16.5%) NA NA NA Methode Electronics, Inc. (MEI) 22.73 809 10,47 (48.8%) (55.8%) (40.6%) (2.4%) 7.3x 22.6x 0.9x 0.9x 5.4x 6.6x \$1.176 \$1,162 \$1.79% (1.6.5%) NA NA NA Methode Electronics, Inc. (MEI) 313.09 51,963 57,570 21.5% 15.2% 84.1% 172.2% NM 24.7x 7.0x 5.8x 24.1x 22.2x \$8,171 \$9,946 10.2% 21.7% 49.5% 48.4% Nokia Oyj (NOKIA) 3.37 18,679 17,524 (27.0%) (64.1%) (72.0%) 8.9x 26.0x 0.2x 0.3x 2.3x NM \$1,168 \$737 (6.9%) (35.9%) (46.9%) (24.9%) NA | | | | | | | | | | | | | | | | | | | | | 20.5% | 18. |
| Lumentum Holdings Inc. (LITE) 52.42 3,512 4,437 0.5% (50.4%) (44.7%) 24.8% 10.1x 23.0x 2.6x 3.1x 7.4x 7.7x \$1,77 \$1,426 0.3% (16.5%) NA NA NA Methode Electronics, Inc. (MEI) 22.73 809 1,047 (48.8%) (53.8%) (40.6%) (2.4%) 7.3x 22.6x 0.9x 0.9x 5.4x 6.6x \$1,176 \$1,426 17.9% 11.2% 12.8% 14.8% 172.2% NM 24.7x 7.0x 5.8x 24.1x 22.2x \$1,171 \$9,946 10.2% 11.2% 12.9% 49.5% 48.4% NA NA MA Motorola Solutions, Inc. (MEI) 14.8% 14.82 22.x \$1,171 \$1,172 \$1,426 17.9% 11.2% 12.8% 14.84 172.2% NM 24.7x 7.0x 5.8x 24.1x 22.2x \$1,171 \$1,172 \$ | | | | | | | | | | | | | | | | | | | | | 23.6% | 23. |
| Methode Electronics, Inc. (MEI) 22.73 809 1.047 (48.8%) (53.8%) (40.6%) (2.4%) 7.3x 22.6x 0.9x 0.9x 0.9x 0.9x 5.4x 6.6x 51,176 51,162 1.79% (1.2%) NA NA NA NA NA NA NA NA NA N | 9 | | | | | | | | | | | | | | . , . | | | | | | | |
| Motorola Solutions, Inc. (MSI) 313.09 51,963 57,570 21.5% 15.2% 84.1% 172.2% NM 24.7x 7.0x 5.8x 24.1x 22.2x \$8,171 \$9,946 10.2% 21.7% 49.5% 48.4% 172.2% No. (No. 12.7) 14.5% | | | | | | | | | | | | | | | | | | | | | 35.2% | 40. |
| NETGEAR, Inc. (NTGR) 14.58 432 247 (19.5%) (50.1%) (50.1%) (50.1%) (50.1%) (64.1%) (72.0%) (8.9%) (8.9%) | | | | | , | | | | | | | | | | | | | | | | 16.5% | 13.7 |
| Nokia Oyj (NOKIA) 3.37 18,679 17,524 (27.0%) (46.8%) (12.5%) (41.4%) 10.3x 10.6x 0.7x 0.8x 4.5x 4.4x \$25,250 \$23,141 (5.5%) (8.3%) 40.7% 40.6% Prysmins Sp.A. (PRY) 45.51 12,409 15,000 22.9% 20.9% 27.9% 135.6% 34.2x 16.6x 1.0x 1.0x 13.8x 9.7x \$14,604 \$15,594 18.6% 68.9% 31.7% 29.0% 14.6% 11.7x 6.85 11.7x 6 | | | | | | | | | | | | | | | | | | | | | 29.2% | 26. |
| Prysmian S.p.A. (PRY) 45.51 12,409 15,000 22.9% 20.9% 27.9% 135.6% 34.2x 16.6x 1.0x 1.0x 13.8x 9.7x \$14,604 \$15,594 18.6% 6.8% 31.7% 29.0% Sterlite Technologies Limited (532374) 1.72 685 1,066 (19.1%) (55.6%) (31.2%) (59.3%) 24.3x 0.2x 1.4x 0.0x 8.3x 14.9x \$761 \$65,337 22.5% 8484.5% NA NA NA Telefonalteibologet LM Ericsson (publ) (ERIC B) 6.28 20,916 21,840 7.4% (43.1%) (47.2%) (28.4%) 8.3x 1.2x 0.9x 0.1x 5.2x 5.8x \$25,692 \$61,26 (9.2%) 943.6% 43.1% 42.5% (42.8%) 6.2% NM 21.4x 2.0x 2.0x 12.5x NA \$14,505 \$12.5x NA \$14,505 \$12.5x NA \$14,505 \$13.4% (0.8%) NA NA NA Ribbon Communications Inc. (RBBN) 2.90 498 824 3.9% (52.1%) (55.8%) (39.8%) NM 10.0x 1.0x 1.0x 1.0x 6.5x NA \$845 \$1.80 0.1% (3.0%) 53.8% 55.6% | | | | | | | | | | | | | | | | | | | | | 9.1% | (0. |
| Sterlite Technologies Limited (532374) 1.72 685 1,066 (19.1%) (55.6%) (31.2%) (59.3%) 24.3x 0.2x 1.4x 0.0x 8.3x 14.9x \$761 \$65,337 22.5% 8484.5% NA NA Telefonaltide bolaget LM Ericsson (publ) (ERIC B) 6.28 20,916 21,840 7.4% (43.1%) (42.2%) (28.4%) 8.3x 1.2x 0.9x 0.1x 5.2x 5.8x \$25,692 \$268,126 (9.2%) 94.3% 4.2.5% Valva Solution Inc (VAIV) 10.77 2,240 2,479 (4.2 %) (52.8%) 0.2% NM 21.4x 2.0x 2.0x 1.5x NA \$1,264 13.4% (0.8%) 3.N A.2.5% Ribbon Communications Inc. (RBBN) 2.90 498 8.24 3.9% (52.1%) (55.8%) NM 10.0x 1.0x 1.0x 6.5x NA \$1.26 13.4% 0.8% 3.8% 55.6% | 22.5 | | | , . | | | | | | | | | | | | | | , , | | | 15.5% | 17. |
| Telefonaktiebolaget LM Ericsson (publ) (ERIC B) 6.28 20,916 21,840 7.4% (43.1%) (47.2%) (28.4%) 8.3x 1.2x 0.9x 0.1x 5.2x 5.8x \$25,692 \$268,126 (9.2%) 943.6% 43.1% 42.5% Viavi Solutions Inc. (VIAV) 10.07 2,240 2,479 (4.2%) (42.8%) (32.8%) 0.2% NM 21.4x 2.0x 2.0x 12.5x NA \$1,256 \$1,246 13.4% (0.8%) NA NA Ribbon Communications Inc. (RBBN) 2.90 498 824 3.9% (52.1%) (55.8%) (39.8%) NM 10.0x 1.0x 1.0x 6.5x NA \$845 \$820 0.1% (3.0%) 53.8% 55.6% | | | | | | | | | | | | | | | | | | | | | 7.5% | 9. |
| Viavi Solutions Inc. (VIAV) 10.07 2,240 2,479 (4.2%) (42.8%) (32.8%) 0.2% NM 21.4x 2.0x 2.0x 12.5x NA \$1,256 \$1,246 13.4% (0.8%) NA NA Ribbon Communications Inc. (RBBN) 2.90 498 824 3.9% (52.1%) (55.8%) (39.8%) NM 10.0x 1.0x 6.5x NA \$845 \$820 0.1% (3.0%) 53.8% 55.6% | | | | , | | | | | | | | | | | | , | | | | | 16.9% | 0. |
| Ribbon Communications Inc. (RBBN) 2.90 498 824 3.9% (52.1%) (55.8%) (39.8%) NM 10.0x 1.0x 1.0x 6.5x NA \$845 \$820 0.1% (3.0%) 53.8% 55.6% | | | | | | | | | | | | | | | | | | | | | 16.4% | 1. |
| | | | | | | | | | | | | | | | | | | | | | 15.7% | |
| | bbon Communications Inc. (RBBN) | 2.90 | 498 | 824 | 3.9% | (52.1%) | (55.8%) | (39.8%) | NM | 10.0x | 1.0x | 1.0x | 6.5x | NA | \$845 | \$820 | 0.1% | (3.0%) | 53.8% | 55.6% | 14.9% | |
| Median (7.8%) (43.1%) (12.5%) 20.2% 14.1x 14.5x 1.7x 1.5x 9.8x 9.2x \$2,301 \$5,603 10.8% 7.8% 40.7% 39.0% | ledian | | | | (7.8%) | (43.1%) | (12.5%) | 20.2% | 14.1x | 14.5x | 1.7x | 1.5x | 9.8x | 9.2x | \$2,301 | \$5,603 | 10.8% | 7.8% | 40.7% | 39.0% | 16.4% | 16. |



Public Company Trading Details, Cont'd

| (USD in millions, except per share data) | _ | Capitali | | | Share Price P | erformance | | Price / E | arnings | EV / Rev | /enue | EV / EB | ITDA | Reve | nue | Revenue | Growth | Gross N | largin | EBITDA | Margin |
|--|----------------|-----------------|---------------------|---------|---------------|------------|---------|-----------|---------|----------|-------|---------|-------|-----------|-----------|---------|---------|---------|--------|--------|--------|
| Company | Share Price | Equity Value | Enterprise Value | YTD | 2 Year | 3 Year | 5 Year | 2022A | 2023E | 2022A | 2023E | 2022A | 2023E | 2022A | 2023E | 2022A | 2023E | 2022A | 2023E | 2022A | 2023E |
| Unified Communications | | | | | | | | | | | | | | | | | | | | | |
| 8x8, Inc. (EGHT) | \$3.78 | \$462 | \$857 | (12.5%) | (77.4%) | (89.0%) | (79.0%) | NM | 7.9x | 1.4x | 1.2x | NM | 19.3x | \$601 | \$740 | 18.1% | 23.0% | NA | NA | 2.9% | 6.09 |
| Bandwidth Inc. (BAND) | 14.47 | 371 | 877 | (36.9%) | (79.8%) | (90.6%) | (64.5%) | NM | 9.8x | 1.8x | 1.5x | 18.2x | 26.4x | \$491 | \$590 | 43.1% | 20.1% | 48.4% | 48.1% | 9.8% | 5.69 |
| Five9, Inc. (FIVN) | 78.69 | 5,720 | 5,816 | 16.0% | (42.7%) | (54.9%) | 80.0% | NM | NM | 9.5x | 6.4x | NM | NM | \$610 | \$909 | 40.2% | 49.1% | 63.2% | 59.7% | 17.5% | 14.89 |
| Ooma, Inc. (OOMA) | 10.73 | 277 | 293 | (21.2%) | (47.5%) | (25.5%) | (22.7%) | NM | 16.9x | 1.5x | 1.2x | 19.8x | 17.6x | \$192 | \$237 | 13.8% | 23.0% | 61.8% | 64.1% | 7.7% | 7.09 |
| RingCentral, Inc. (RNG) | 33.95 | 3,183 | 4,790 | (4.1%) | (81.9%) | (91.0%) | (58.8%) | NM | 9.7x | 3.0x | 2.2x | 21.7x | 15.4x | \$1,595 | \$2,201 | 34.7% | 38.0% | 77.4% | 78.0% | 13.8% | 14.19 |
| Twilio Inc. (TWLO) | 75.87 | 13,736 | 11,073 | 55.0% | (71.2%) | (77.6%) | (15.0%) | NM | 30.8x | 3.9x | 2.7x | NM | NM | \$2,842 | \$4,115 | 61.3% | 44.8% | 54.1% | 51.1% | 8.7% | 5.69 |
| Ziff Davis, Inc. (ZD) | 67.19 | 3,090 | 3,400 | (15.1%) | (39.4%) | (31.2%) | (3.2%) | 6.2x | 9.9x | 2.4x | 2.5x | 7.0x | 6.7x | \$1,417 | \$1,373 | 22.3% | (3.1%) | 85.2% | 86.2% | 34.4% | 36.89 |
| Zoom Video Communications, Inc. (ZM) | 71.91 | 21,891 | 15,476 | 6.2% | (60.9%) | (78.7%) | NA | 15.5x | 15.5x | 3.8x | 3.4x | 9.4x | 9.8x | \$4,100 | \$4,510 | 54.6% | 10.0% | 74.9% | 78.5% | 40.2% | 34.99 |
| Median | | | | (8.3%) | (66.0%) | (78.1%) | (22.7%) | 10.9x | 9.9x | 2.7x | 2.3x | 18.2x | 16.5x | \$1,013 | \$1,141 | 37.4% | 23.0% | 63.2% | 64.1% | 11.8% | 10.69 |
| Diversified Communications | | | | | | | | | | | | | | | | | | | | | |
| Altice USA, Inc. (ATUS) | \$3.25 | \$1,478 | \$26,582 | (29.3%) | (79.9%) | (91.4%) | (80.3%) | 1.5x | 9.3x | 2.6x | NA | 6.0x | 6.8x | \$10,091 | \$9,227 | 2.0% | (8.6%) | 66.5% | 59.9% | 43.8% | 42.39 |
| AT&T Inc. (T) | 16.78 | 119,977 | 291,074 | (8.9%) | (31.8%) | (41.7%) | (41.2%) | 6.1x | 6.8x | 2.2x | 2.4x | 5.6x | 7.0x | \$134,038 | \$121,912 | (6.3%) | (9.0%) | 57.1% | 60.0% | 38.8% | 34.29 |
| ATN International, Inc. (ATNI) | 38.97 | 591 | 1,363 | (14.0%) | (2.5%) | (6.7%) | (46%) | NM | NM | 2.3x | 1.8x | 10.6x | 8.2x | \$603 | \$756 | 32.3% | 25.4% | NA | NA | 21.3% | 22.09 |
| Cable One, Inc. (CABO) | 556.59 | 3,126 | 6,585 | (21.8%) | (68.4%) | (75.0%) | (32.1%) | 11.5x | 10.7x | 4.1x | 3.9x | 7.8x | 7.3x | \$1,606 | \$1,684 | 21.2% | 4.9% | 72.1% | 72.1% | 52.5% | 53.99 |
| Charter Communications, Inc. (CHTR) | 388.68 | 57,494 | 158,659 | 14.6% | (40.4%) | (41.2%) | 36% | 15.3x | 10.3x | 3.1x | 2.9x | 7.7x | 7.3x | \$51,682 | \$54,616 | 7.5% | 5.7% | 61.9% | 62.4% | 39.7% | 39.69 |
| Cogent Communications Holdings, Inc. (CCOI) | 76.06 | 3,586 | 5,361 | 33.3% | 3.9% | 27.0% | 68.2% | NM | NM | 9.4x | 5.7x | 23.3x | 23.0x | \$571 | \$938 | 3.3% | 64.2% | 62.1% | 61.9% | 40.2% | 24.99 |
| Comcast Corporation (CMCSA) | 43.85 | 176,500 | 273,336 | 25.4% | (12.9%) | (16.3%) | 29% | 14.2x | 10.3x | 2.3x | 2.3x | 7.9x | 7.4x | \$116,385 | \$120,707 | 12.4% | 3.7% | 63.2% | 63.5% | 29.7% | 30.59 |
| Consolidated Communications Holdings, Inc. (CNSL) | 4.35 | 507 | 2,931 | 21.5% | (41.8%) | (11.0%) | (56.0%) | NM | NM | 2.3x | 2.6x | 5.8x | 7.2x | \$1,282 | \$1,114 | (1.7%) | (13.1%) | 55.5% | 53.9% | 39.3% | 36.69 |
| Lumen Technologies, Inc. (LUMN) | 1.83 | 1,846 | 21,726 | (64.9%) | (85.4%) | (81.2%) | (88%) | 1.0x | NM | 1.1x | 1.5x | 2.6x | 3.2x | \$19,687 | \$14,499 | (4.9%) | (26.4%) | 56.9% | 55.6% | 42.8% | 47.09 |
| T-Mobile US, Inc. (TMUS) | 160.33 | 185,418 | 294.286 | 14.5% | 38.2% | 18.9% | 152.1% | NM | 15.4x | 3.7x | 3.8x | 10.9x | 10.8x | \$80.118 | \$77.785 | 17.1% | (2.9%) | 55.2% | 54.2% | 33.7% | 35.19 |
| Verizon Communications Inc. (VZ) | 37.70 | 158,495 | 333,606 | (4.3%) | (27.4%) | (35.8%) | (33%) | 7.1x | 8.2x | 2.5x | 2.5x | 6.9x | 7.0x | \$133,613 | \$133,520 | 4.1% | (0.1%) | 58.3% | 57.0% | 36.2% | 35.99 |
| Vodafone Group Public Limited Company (VOD) | 0.87 | 23,647 | 84,838 | (14.0%) | (42.5%) | (47.1%) | (55.2%) | 21.8x | 9.1x | 1.6x | 1.9x | 5.0x | 5.2x | \$51,434 | \$44,674 | (4.7%) | (13.1%) | NA | NA | 32.8% | 36.39 |
| Median | | | | (6.6%) | (36.1%) | (38.5%) | (37.1%) | 9.3x | 9.8x | 2.4x | 2.5x | 7.3x | 7.2x | \$35,560 | \$29,586 | 3.7% | (1.5%) | 60.1% | 60.0% | 39.1% | 36.19 |
| Data Center and Wireless Infrastructure | | | | | | | | | | | | | | | | | | | | | |
| American Tower Corporation (AMT) | 215.88 | 100.636 | 152.034 | 1.9% | (26.2%) | (3.8%) | 36% | NM | NM | 16.2x | 13.7x | 25.4x | 23.0x | \$9.357 | \$11.096 | 16.4% | 18.6% | 71.5% | 69.3% | 63.9% | 59.59 |
| Crown Castle Inc. (CCI) | 115.19 | 49,957 | 78,569 | (15.1%) | (44.8%) | (27.6%) | 6.0% | NM | NM | 12.4x | 11.3x | 20.7x | 18.1x | \$6,340 | \$6,960 | 8.6% | 9.8% | 68.6% | 70.5% | 60.0% | 62.39 |
| DigitalBridge Group, Inc. (DBRG) | 17.54 | 2,866 | 7,769 | 60.3% | (47.4%) | (8.8%) | (6%) | NM | NM | 6.6x | 11.1x | 24.7x | 24.8x | \$1,182 | \$701 | 194.4% | (40.7%) | NA | NA | 26.6% | 44.79 |
| Digital Realty Trust, Inc. (DLR) | 134.58 | 40,758 | 60,601 | 34.2% | (23.9%) | (3.5%) | 26.3% | 22.6x | NM | 13.7x | 11.0x | 25.1x | 24.7x | \$4,426 | \$5,505 | 15.1% | 24.4% | 59.9% | 57.1% | 54.5% | 44.69 |
| Equinix, Inc. (EQIX) | 805.39 | 75,613 | 90,661 | 23.0% | (4.8%) | 12.8% | 128% | NM | NM | 14.5x | 11.1x | 28.9x | 26.9x | \$6,260 | \$8,188 | 11.3% | 30.8% | 66.6% | 66.3% | 50.1% | 41.19 |
| SBA Communications Corporation (SBAC) | 253.69 | 27,370 | 41,981 | (9.5%) | (34.8%) | (10.1%) | 56.7% | NM | NM | 18.2x | 15.4x | 26.1x | 23.7x | \$2,309 | \$2,718 | 10.8% | 17.7% | 76.3% | 74.5% | 69.6% | 65.19 |
| Median | | | | 12.4% | (30.5%) | (6.3%) | 31.4% | 22.6x | NA | 14.1x | 11.2x | 25.3x | 24.2x | \$5,343 | \$6,233 | 13.2% | 18.2% | 68.6% | 69.3% | 57.2% | 52.19 |
| Communications Technology Distributors | | | | | | | | | | | | | | | | | | | | | |
| Arrow Electronics, Inc. (ARW) | \$122.25 | \$6,621 | \$10,560 | 16.9% | (9.0%) | 25.6% | 77.3% | 8.0x | 8.3x | 0.3x | 0.3x | 6.2x | 4.6x | \$34,477 | \$33,080 | 20.2% | (4.1%) | 12.0% | 13.0% | 5.0% | 6.99 |
| Avnet, Inc. (AVT) | 50.40 | 4,560 | 7,693 | 21.2% | 22.2% | 43.5% | 39.6% | 11.0x | 8.5x | 0.4x | 0.3x | 11.2x | 6.2x | \$21,593 | \$25,006 | 20.9% | 15.8% | NA | NA | 3.2% | 5.09 |
| CDW Corporation (CDW) | 227.32 | 30,452 | 36,501 | 27.3% | 11.0% | 72.5% | 180.5% | 31.8x | 21.5x | 1.8x | 1.7x | 21.1x | 16.6x | \$20,821 | \$21,684 | 12.7% | 4.1% | 17.1% | 19.2% | 8.3% | 10.19 |
| Computacenter plc (CCC) | 35.56 | 4.022 | 3.821 | 54.5% | (9.7%) | 6.4% | 177.4% | 16.0x | 20.0x | 0.6x | 0.5x | 8.3x | 8.9x | \$6,817 | \$7,432 | (8.2%) | 9.0% | 13.2% | 15.4% | 6.7% | 5.89 |
| Datatec Limited (DTC) | 2.21 | 503 | 744 | 21.4% | (8.2%) | 32.2% | 16.4% | 20.1x | 8.5x | 0.2x | 0.1x | NA. | NA. | \$4,332 | \$5,430 | 6.4% | 25.3% | NA. | NA. | NA. | N. |
| ePlus inc. (PLUS) | 79.84 | 2,125 | 2,265 | 80.3% | 48.2% | 81.6% | 124.4% | 22.0x | 14.8x | 1.3x | 1.1x | 14.4x | 13.3x | \$1,722 | \$2,123 | 8.8% | 23.3% | NA | NA | 9.1% | 8.09 |
| Insight Enterprises, Inc. (NSIT) | 177.19 | 5.772 | 6.470 | 76.7% | 66.2% | 132.9% | 334.8% | 28.3x | 15.6x | 0.7x | 0.7x | 16.4x | 13.3x | \$9,436 | \$9.320 | 13.1% | (1.2%) | 15.4% | 15.5% | 4.2% | 5.29 |
| PC Connection, Inc. (CNXN) | 67.21 | 1,766 | 1,482 | 43.3% | 55.8% | 42.1% | 126.1% | 25.2x | 19.7x | 0.5x | 0.5x | 14.6x | 10.8x | \$2,893 | \$2,829 | 11.7% | (2.2%) | 16.1% | 16.8% | 3.5% | 4.99 |
| Rexel S.A. (RXL) | 27.38 | 8,255 | 11,716 | 38.9% | 35.0% | 73.6% | 157.1% | 12.2x | 10.2x | 0.7x | 0.6x | 9.0x | 6.6x | \$16,707 | \$19,143 | 8.5% | 14.6% | 25.4% | 25.5% | 7.8% | 9.39 |
| Synnex Technology International Corporation (2347) | 2.29 | 3,822 | 4,927 | 18.9% | (4.1%) | 37.0% | 92.7% | 6.1x | 0.4x | 0.3x | 0.0x | 13.3x | 16.7x | \$14,752 | \$384,292 | 24.0% | 2505.1% | 4.4% | 4.0% | 2.5% | 0.19 |
| WESCO International, Inc. (WCC) | 173.88 | 8,881 | 14,212 | 38.9% | 32.1% | 121.5% | 262.3% | 21.4x | 10.2x | 0.8x | 0.6x | 12.2x | 8.4x | \$18,218 | \$22,500 | 47.8% | 23.5% | 20.9% | 21.7% | 6.4% | 7.59 |
| Median | | ., | · - | 38.9% | 22.2% | 43.5% | 126.1% | 20.1x | 10.2x | 0.6x | 0.5x | 12.8x | 9.9x | \$9,436 | \$9,320 | 12.7% | 14.6% | 15.7% | 16.1% | 5.7% | 6.39 |





| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|-----------------------------------|-----------------------------------|--|---|---------------------|------------------|------------|-----------|
| Dec 2023 | MasterStream ERP | % Connectbase | Networking Systems Software and Services | Developer of configure price quote software solutions catering to the telecom industry | M&A | NA | NA | NA |
| Dec 2023 | WETWORKS Our Vision, Your Future. | ◆ center3 | Networking Systems Software and Services | Provider of managed end-to-end connectivity services intended for global telecom providers | r M&A | NA | NA | NA |
| Dec 2023 | DQE Communications | GI PARTNERS | Unified Communications | Provider of fiber-optic internet and data network access services intended for businesses and carriers | M&A | NA | NA | NA |
| Dec 2023 | gta | Stonepeak | Networking Systems Software and Services | Provider of telecommunications services based in Tamuning, Guarr | n Capital Raise | NA | NA | NA |
| Dec 2023 | VIATEL | MACQUARIE | Data Center and Wireless Infrastructure | Provider of advanced voice, data connectivity, data center and managed WAN services in Ireland | Capital Raise | NA | NA | NA |
| Dec 2023 | MERGO | MACQUARIE FREEDOMIS WAVEDIVISION | Diversified Communications | Provider of bulk internet services intended for multi-dwelling units ("MDUs") in the United States $$ | Capital Raise | NA | NA | NA |
| Nov 2023 | EDGEX | TONAQUINT | Data Center and Wireless Infrastructure | Operator of data centers intended to serve businesses | M&A | NA | NA | NA |
| Nov 2023 | GYRO | nlighten | Data Center and Wireless Infrastructure | Operator of a data center based in Amsterdam, Netherlands | M&A | NA | NA | NA |
| Nov 2023 | vm ware [*] | ● BROADCOM | Networking Systems Software and Services | Virtualizing IT infrastructure with solutions that are used across IT infrastructure, application development, and cybersecurity teams Γ | M&A | \$69,210 | 5.1x | 19.9x |
| Nov 2023 | UltraEdge | Morgan Stanley | Data Center and Wireless Infrastructure | Operator of a chain of data centers intended for corporate clients and other telecommunications operators in France | M&A | \$818 | NA | 29.3x |
| Nov 2023 | Globalways | zayo | Networking Systems Software and Services | Provider of high-speed internet connectivity services intended for the companies in the Stuttgart region | M&A | NA | NA | NA |
| Nov 2023 | edzcom edlinex** | poldyn | Unified Communications | Provider of private wireless networks for industrial clients like manufacturing, ports, oil and gas, energy generation and mining | M&A | NA | NA | NA |
| Nov 2023 | Clightcurve | II | Diversified Communications | Provider of internet, television and phone services | M&A | NA | NA | NA |
| Nov 2023 | Cyxtera | Brookfield B DIGITAL REALTY | Data Center and Wireless Infrastructure | Engaged in data center colocation and interconnection services | M&A | \$1,300 | NA | NA |
| Nov 2023 | - ARTIGORY | ADIA | Networking & Communications Equipment | Operator of a ground lease acquisition company intended for the development and management of the real estate and infrastructure | Capital Raise | NA | NA | NA |
| Oct 2023 | MAINSTREAM fiber networks | SEARCH(LIGHT | Networking Systems Software and Services | Provider of fiber optic internet services intended to offer reliable internet to customers and communities | Capital Raise | NA | NA | NA |
| Oct 2023 | île k alubaê | TERRAMONT | Networking & Communications Equipment | Leading provider of mission-critical wireless infrastructure solutions | Capital Raise | NA | NA | NA |
| Oct 2023 | HORIZON | <u> </u> | Networking & Communications Equipment | Provider of advanced broadband infrastructure services | M&A | \$385 | NA | NA |
| Oct 2023 | swyft | ■ MACQUARIE | Networking Systems Software and Services | Provider of fiber internet connectivity services located in Milan, Tennessee | M&A | \$275 | NA | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|--|------------------------------|--|--|---------------------|------------------|------------|-----------|
| Oct 2023 | metrofibre | DIF CAPITAL PARTMERS | Networking & Communications Equipment | Developer and operator of passive fiber optic networks for cities and communities | M&A | NA | NA | NA |
| Oct 2023 | LUMEN [®] (Content Delivery Network Customer Contracts) | (Akamai | Networking Systems Software and Services | Portfolio of select content delivery network customer contracts | M&A | NA | NA | NA |
| Oct 2023 | <u>•bmg</u> | SALUTE MINIMUM CHITTE NO. | Networking Systems Software and Services | Provider of mechanical and electrical design engineering consultancy services intended for mission-critical facilities | M&A | NA | NA | NA |
| Oct 2023 | (T) TowerNorth | Berkshire Partners | Networking & Communications Equipment | Provider of mission-critical infrastructure services intended to serve regions in the US and Europe | M&A | NA | NA | NA |
| Oct 2023 | . <u>USNET</u> | :-iexatronic | Data Centers and Colocation | Provider of structured cabling and data center relocation services | M&A | NA | NA | NA |
| Oct 2023 | HANCOCK PEER | archtopfiber | Unified Communications | Provider of a broad set of telecommunications services | M&A | NA | NA | NA |
| Oct 2023 | § infoStructure | HUNTER | Networking Systems Software and Services | Developer of cloud communications software designed to make it easy for businesses to connect and communicate | M&A | NA | NA | NA |
| Sep 2023 | ASK4 | GI PARTNERS | Diversified Communications | Provider of telecommunication and internet services focused on multi-tenant accommodations | M&A | NA | NA | NA |
| Sep 2023 | PROXIMITY DATA CENTRES | nlighten | Data Centers and Colocation | Provider of data center services designed to support applications and services by reducing latency and IP transit costs | M&A | NA | NA | NA |
| Aug 2023 | Speed Fibre Group | © Cordiant | Networking & Communications Equipment | Provider of open-access fiber and wireless network for the telecommunications industry | M&A | NA | NA | NA |
| Aug 2023 | ₩ wgtwo | alialia cisco | Networking & Communications Equipment | Developer of a telecommunication platform intended to bring the internet ecosystem dynamics closer to the telecom industry | M&A | \$150 | NA | NA |
| Jul 2023 | acklio | Achilley | Networking & Communications Equipment | Developer of a long-range radio network designed to speed up development and reduce the costs of new IoT services | M&A | NA | NA | NA |
| Jul 2023 | communication surplified | ρro⊮ımus | Unified Communications | Cloud Communication Platform provider, catering to enterprises, over-the-top (OTT) players, and mobile network operators (MNO) | M&A | \$1,252 | 2.8x | 22.4x |
| Jul 2023 | T tessco | LEE | Communications Equipment (Primary) | Value-added technology distributor, manufacturer, and solutions provider | Take-Private | \$161 | 0.4x | 91.5x |
| Jul 2023 | IT FREEDOM | ₹ THRIV≣ | Networking Systems Software and Services | Provider of technology-managed services intended to serve varied businesses | M&A | NA | NA | NA |
| Jul 2023 | (ĝ) kaleyra | TATA COMMUNICATIONS | Unified Communications | Mobile communication services for financial institutions, e- commerce players, OTTs, software companies, logistic enablers, etc. | M&A | \$49 | 0.1x | NA |
| Jul 2023 | ONE PRINCE NETWORKS | Ø EarthLink¹ | Networking Systems Software and Services | Provider of telecommunications and networking services intended to meet the communication needs of business organizations | M&A | NA | NA | NA |
| lul 2023 | Hypercore | ₩ nitel | Networking Systems Software and Services | Provider of connectivity and telecom services | M&A | NA | NA | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|--------------------------------|---|---|---|---------------------|------------------|------------|-----------|
| Jul 2023 | Edge & Presence | ubi@uity | Data Centers and Colocation | Operator of multi-tenant, modular data centers intended to provide space, power, bandwidth, and interconnection | M&A | NA | NA | NA |
| Jul 2023 | MXT HOLDINGS | ARDIAN | Networking & Communications Equipment | Operator of an investment platform to develop, acquire, own, and operate neutral-host communication infrastructure assets | M&A | NA | NA | NA |
| Jun 2023 | COMPASS | Brookfield Infrastructure Partners | Data Centers and Colocation | Developer of data-centers designed to support software as service (SaaS) providers, cloud computing and service provider customers | M&A | NA | NA | NA |
| Jun 2023 | LINITEL | EXA | Communications Equipment (Primary) | Provider of infrastructure services catering to the telecommunications sector | M&A | NA | NA | NA |
| Jun 2023 | bridgewired ** | Cincumate Bell convecting about makes | Networking & Communications Equipment | Fiber Assets of Bridgewired comprise the broadband infrastructure assets. The asset is located in the United States | M&A | NA | NA | NA |
| May 2023 | ▲LTEVA | archtop fiber | Networking Systems Software and Services | Provides communication services to residential and business customers in the United States | M&A | NA | NA | NA |
| May 2023 | 😽 serverfarm | III Manulife Investment Management | Data Centers and Colocation | Provider of sustainable data center management and modernization, enabling businesses to gain control over their critical IT infrastructure | M&A | NA | NA | NA |
| May 2023 | lifesize | Enghouse Systems | Unified Communications | Developer of cloud-based video collaboration and meeting productivity solutions | M&A | NA | NA | NA |
| May 2023 | Lastina Xchange | % Connectbase | Networking Systems Software and Services | Developer of web-based tools intended to offer software, products and solutions for B2B telecom operators and cloud service providers | s M&A | NA | NA | NA |
| May 2023 | Unite | COX | Networking & Communications Equipment | Provider of fiber-optic communications infrastructure services intended for schools, governments, and data centers | M&A | NA | NA | NA |
| May 2023 | Lit Communities | ∕À OAK HILL CAPITAL | Networking & Communications Equipment | Provider of internet access and digital infrastructure services | M&A | \$150 | NA | NA |
| May 2023 | VENYUE d DASTPONEZS COMPANY | DartP ® ints | Data Centers and Colocation | Provider of data center, cloud hosting, and disaster recovery services | M&A | NA | NA | NA |
| Apr 2023 | *tempo | konatel | Telecommunication Services (Primary) | Provider of telecommunication services including prepaid and lifeline voice, text and data communication | M&A | NA | NA | NA |
| Apr 2023 | Consolidated communications | BC SEARCH CONT | Telecommunication Services (Primary) | Provider of communication services including data and internet solutions, voice, and data center services | M&A | \$2,635 | 2.3x | 7.8x |
| Apr 2023 | redit by AMERICANTOWER | NETWORKS | Networking Systems Software and Services | Provider of fiber optic connectivity solutions | M&A | NA | NA | NA |
| Mar 2023 | 🙏 amadys | ∧ Netceed | Communications Technology Distributors | Distributor of passive network equipment for water, gas, electricity and telecom infrastructures | M&A | NA | NA | NA |
| Mar 2023 | • Hemisphere | INDUSTRIAL | Networking & Communications Equipment | Provider of satellite positioning services and positioning equipment | M&A | \$175 | NA | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|-------------------------------------|-----------------------------------|--|---|---------------------|------------------|------------|-----------|
| Mar 2023 | fatbeam | BASALT INFRASTRUCTURE PARTNERS | Unified Communications | Provider of fiber-based broadband services intended for education, carrier, government and enterprise customers | M&A | NA | NA | NA |
| Mar 2023 | mint mobile | \mathbf{T} | Unified Communications | Provider of wireless service plans, prepaid plans, flexible data options and streaming services | M&A | \$1,350 | NA | NA |
| Mar 2023 | CATLINK REGIACIBAND & REVEND | e element8 | Unified Communications | Provider of fixed-wireless internet based in Oklahoma City, Oklahoma | M&A | NA | NA | NA |
| Mar 2023 | DATAPATH | Gilat | Networking & Communications Equipment | Manufacturer of specialty communications and cyber security products | M&A | \$45 | NA | NA |
| Mar 2023 | ptera | ziply fiber | Unified Communications | Provider of wireless internet services operating in four counties across Washington and Idaho | M&A | NA | NA | NA |
| Mar 2023 | mimosa | Radisys | Networking & Communications Equipment | Provider of broadband wireless communication services including 5G fixed wireless | M&A | \$60 | NA | NA |
| Mar 2023 | radius | PSP | Unified Communications | Operator of an aggregator of rental streams underlying wireless sites | M&A | \$3,000 | NA | NA |
| Feb 2023 | Cityside | SDC CAPITAL PARTNERS | Networking & Communications Equipment | Operator of fiber-based network development, neutral host operations and smart connectivity platforms | M&A | NA | NA | NA |
| Feb 2023 | VALTIX | illilli cisco | Networking Systems Software and Services | Developer of a multi-cloud network security platform | M&A | NA | NA | NA |
| Feb 2023 | BIGRIVER | Broadband | Unified Communications | Provider of wireless internet, telephone, and fiber-based internet solutions | M&A | NA | NA | NA |
| Jan 2023 | O e-vergent | 2010 | Unified Communications | Provider of wireless internet services including LAN, bandwidth, fiber and fixed wireless | M&A | \$11 | NA | NA |
| Jan 2023 | gatewayfiber | CBRE Investment Management | Unified Communications | Developer and operator of fiber-to-the-home broadband networks | s M&A | NA | NA | NA |
| Jan 2023 | RF Specialties | Mdwerks | Networking & Communications Equipment | Designer, manufacturer, and distributor of radio and television broadcast products | M&A | NA | NA | NA |
| Jan 2023 | Openbyte Infrastructure | ADMACOLAS | Networking & Communications Equipment | Provider of open-access landing solutions intended to serve submarine cables | M&A | NA | NA | NA |
| Jan 2023 | Winn | UPFN | Unified Communications | Provider of fiber optic-based telecommunications services | M&A | NA | NA | NA |
| Jan 2023 | PACKETFABRIC | UNITAS GLOBAL | Networking Systems Software and Services | Developer of a network connectivity management platform | M&A | NA | NA | NA |
| Jan 2023 | Missouri Telecom, Inc. | OZARK FIBER | Unified Communications | Provider of internet and voice services catering to residential and small-to-medium-sized businesses | M&A | NA | NA | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|-------------------------------|------------------------------|---|---|---------------------|------------------|------------|-----------|
| Dec 2022 | SWITCH | TATA | Networking Systems Software and Services | Provider of broadcast video transport, video switching and transmission services | M&A | \$59 | 0.7x | NA |
| Dec 2022 | Global Telecom | x tel | Unified Communications | Maryland-based competitive local exchange carrier (CLEC) | M&A | NA | NA | NA |
| Dec 2022 | ΛΤΛ C· O | Aligned August Data Cartest | Data Centers and Colocation | Provider of data center infrastructure and colocation services | M&A | NA | NA | NA |
| Dec 2022 | Communications | ziply fiber | Diversified Communications | Provider of high-speed fiber internet services | M&A | NA | NA | NA |
| Dec 2022 | LUMENISITY | Microsoft | Networking Systems Software and Services | Developer of advanced optic cable services | M&A | NA | NA | NA |
| Dec 2022 | switch | DIGITALBRIDGE Jim | Data Centers and Colocation | Designer and operator of hyper-scale data centers | Take-Private | \$10,579 | 19.9x | 35.0x |
| Dec 2022 | opticalteľ | ANTIN | Networking Systems Software and Services | Provider of fiber broadband products and services | M&A | NA | NA | NA |
| Dec 2022 | Missouri Telecom | BLUE | Networking & Communications Equipment | Middle-Mile Network Assets of Missouri Telecom | M&A | NA | NA | NA |
| Nov 2022 | COMMUNICATIONS COMMUNICATIONS | NOVACAP [®] | Networking Systems Software and Services | Provider of telecommunication services in Utah and Wyoming | M&A | NA | NA | NA |
| Nov 2022 | TIBIT communications inc | ciena | Networking & Communications Equipment | Manufacturer of pluggable devices intended to virtualize the access network | M&A | \$250 | NA | NA |
| Nov 2022 | BENL NETWORK | ciena | Networking Systems Software and Services | Developer of virtual service platform designed for the creation and delivery of IP services | M&A | NA | NA | NA |
| Nov 2022 | g- -o | archtop fiber | Unified Communications | Provider of voice, video and internet services | M&A | NA | NA | NA |
| Nov 2022 | E d g e - c o r E | Partners Group | Data Centers and Colocation | Developer and operator of highly scalable, cloud-connected, wholesale data center campuses | M&A | \$1,200 | NA | NA |
| Nov 2022 | (DIRELESS: | verizon√ | Networking & Communications Equipment | Select spectrum and wireless assets of West Central Wireless | M&A | NA | NA | NA |
| Nov 2022 | likewize. | GE <mark>NSTAR</mark> | Communications Technology Distributors | Distributor of mobile devices and specialized wireless services | Capital Raise | NA | NA | NA |
| Nov 2022 | OLI LANCE OLI CONTROLL | GetŴireless | Networking & Communications Equipment | Alliance and GetWireless merged to build a more diversified value-added telecom platform | IPO/Merger | NA | NA | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|--------------------------|-------------------------------------|--|---|---------------------|------------------|------------|-----------|
| Nov 2022 | AND HELIX | SALUTE HISSIAN CHTICAL | Data Centers and Colocation | Provider of a variety of digital infrastructure solutions | M&A | NA | NA | NA |
| Nov 2022 | MERCURY | Northleaf | Diversified Communications | Provider of high-speed internet and digital phone services | M&A | \$230 | NA | NA |
| Nov 2022 | CABLE CONNICTIVITY GROUP | INFINIT© | Networking & Communications Equipment | Manufacturer and supplier of electronic components intended to serve a global engineering customer base | M&A | \$133 | NA | NA |
| Nov 2022 | | HELIOS Investment Partners | Data Centers and Colocation | Carrier and cloud-neutral colocation data center operator in Kenya | Private Placement | \$50 | NA | NA |
| Nov 2022 | LUMEN [®] | colt | Diversified Communications | EMEA business of Lumen Technology's EMEA business | M&A | \$1,800 | NA | 11.0x |
| Oct 2022 | COMMS RUCHRE | 🕏 LS NETWORKS | NA | Provider of technical consulting services specializing in telecommunications | M&A | NA | NA | NA |
| Oct 2022 | Infra Next Partners | SMC | Investor Consolidation | Infrastructure investment platform | M&A | NA | NA | NA |
| Oct 2022 | cellnex® | Wireless Infrastructure Group | Networking & Communications Equipment | 1,100 Cellnex UK phone towers | M&A | NA | NA | NA |
| Oct 2022 | WMS | CCP GAPITAL | Networking Systems Software and Services | Provider of maritime cellular network services intended for cruise, ferry, yacht and shipping markets | M&A | NA | NA | NA |
| Oct 2022 | Peak Net | EVEREST | Networking & Communications Equipment | Communications Tower Assets of PeakNet | M&A | NA | NA | NA |
| Oct 2022 | DATACENTES OME | AtlasEdge | Data Centers and Colocation | Four data centers in Germany | M&A | NA | NA | NA |
| Oct 2022 | telenor group | KKR | Networking & Communications Equipment | 30% stake of Telenor's passive fiber assets | Private Placement | \$1,080 | NA | 21.0x |
| Oct 2022 | SUNGARD® | II:II SYSTEMS | Diversified Communications | Recovery Business of Sungard Availability Services LP | M&A | NA | NA | NA |
| Oct 2022 | Georgia Public Web | ACCELECOM | Networking Systems Software and Services | Provider of broadband services | M&A | NA | NA | NA |
| Oct 2022 | JET . | CFQUEL) | Networking & Communications Equipment | Provider of local telephone, television and internet services in west central Ohio | t M&A | NA | NA | NA |
| Oct 2022 | LUMEN | APOLLO | Unified Communications | The incumbent local exchange carrier business in 20 states of Lumen Technologies | M&A | \$7,100 | NA | NA |
| Oct 2022 | Vıasat: <mark>√</mark> | L3HARRIS* FAST. FORWARD. | Networking & Communications Equipment | Link 16 Tactical Data Links business of Viasat | M&A | \$1,960 | 4.9x | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|---------------------------------|--|--|---|---------------------|------------------|------------|-----------|
| Sep 2022 | Pocket iNet | b lightspeed | Diversified Communications | Provider of high-speed telecommunications internet and security services | M&A | NA | NA | NA |
| Sep 2022 | zecOps | ⊿ jamf | Networking Systems Software and Services | Developer of a cybersecurity software platform | M&A | \$44 | NA | NA |
| Sep 2022 | Reposify | CROWDSTRIKE | Networking Systems Software and Services | Developer of a cybersecurity software platform | M&A | \$19 | NA | NA |
| Sep 2022 | KnowBe4 | VISTA | Networking Systems Software and Services | Provider of a security awareness training software | M&A | \$4,380 | 15.1x | 210.3x |
| Sep 2022 | Moundville Communications | Fastwyre > | Networking Systems Software and Services | Provider of fiber-based broadband services | M&A | NA | NA | NA |
| Sep 2022 | Intrado | Stonepeak | Networking Systems Software and Services | Safety Business of Intrado Corporation comprises public emergency telecommunications services | M&A | \$2,400 | NA | NA |
| Sep 2022 | everywhere | SILVERIP | Diversified Communications | MDU-Focused Internet Service Provider in the Midwest | Merger | NA | NA | NA |
| Sep 2022 | Paige | GCG | Networking & Communications Equipment | Designer and manufacturer of customized electric wires, connectorized cable assemblies, and accessories | M&A | NA | NA | NA |
| Sep 2022 | US SIGNAL | igneo infrastructure | Diversified Communications | Provider of colocation, IT infrastructure, endpoint monitoring, data management, disaster recovery, and security services | M&A | NA | NA | NA |
| Sep 2022 | | Rife Valley Resources Corp. | Networking Systems Software and Services | Provider of wireless broadband networks in rural and underserved areas of North America | M&A | \$1.8 | NA | NA |
| Sep 2022 | Rahi Systems | wesco | Diversified Communications | Provider of cloud computing, mobile application engineering, networking, and data center infrastructure solutions | M&A | \$217 | NA | NA |
| Sep 2022 | T Mobile | cegent | Networking & Communications Equipment | T-Mobile's Wireline Business comprises long-haul fiber network assets | M&A | NA | NA | NA |
| Aug 2022 | Bravo. | ************************************** | Networking & Communications Equipment | Manufacturer of mobile communication radio frequency power amplifiers and other communication products | M&A | \$0.8 | NA | NA |
| Aug 2022 | Para let | HARMONITOWERS | Networking & Communications Equipment | Designer, leasor and operator of telecommunication towers | M&A | NA | NA | NA |
| Aug 2022 | SUNGARD' AVAILABILITY SERVICES" | II:II SYSTEMS | Diversified Communications | U.S. Colocation and Network Business Of Sungard Availability Services LP comprises its colocation and network business | M&A | NA | NA | NA |
| Aug 2022 | Spral Spral | ANUVU | Networking & Communications Equipment | Provider of satellite equipment and services | M&A | NA | NA | NA |
| Aug 2022 | mival connect | ALL THINGS MOBILE ANALYTIC INC | Diversified Communications | Provider of voice, short messaging and backup services, network hosting, and disaster recovery plans | M&A | \$4 | NA | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|---------------------------------|--|--|---|---------------------|------------------|------------|-----------|
| Aug 2022 | CTi | Joink | Diversified Communications | Provider of the internet service provider (ISP) and telecommunication services | M&A | NA | NA | NA |
| Aug 2022 | CONNECTIVITY | △ Audax Private Equity | Networking & Communications Equipment | Provider of telecommunications solutions | Private Placement | NA | NA | NA |
| Aug 2022 | NA | <u>Underline</u> | Networking Systems Software and Services | Developer of an intelligent community infrastructure platform | Private Placement | \$35 | NA | NA |
| Aug 2022 | ONE | ziply fiber | Networking Systems Software and Services | Provider of local exchange carrier services | M&A | NA | NA | NA |
| Aug 2022 | PingIdentity. | THOMABRAVO | Networking Systems Software and Services | Provider of secure access to any service, application or API from any device | M&A | \$2,796 | 9.1x | NA |
| Aug 2022 | SUNGARD' AVAILABILITY SERVICES" | 365 DataCenters | Data Centers and Colocation | The U.S. Colocation and Network Business of Sungard Availability Services | M&A | NA | NA | NA |
| Jul 2022 | SAC RD WIND COMMENICATIONS | Commnet Consisting that densits | Diversified Communications | Provider of telecommunications and broadband services | M&A | NA | NA | NA |
| Jul 2022 | Zenfi | bilinemasketiev | Core Cloud Infrastructure Technology | Provider of wireless infrastructure services | M&A | NA | NA | NA |
| Jul 2022 | OneWeb | ? eutelsat | Core Cloud Infrastructure Technology | Operator of a global communications network | M&A | \$3,204 | NA | NA |
| Jun 2022 | FIBERLIGHT | Australian Retirement Trust OFFICE PARAMETER | Diversified Communications | Provider of telecommunications consulting, brokerage, and distribution services specialized in the advanced network | M&A | \$1,000 | NA | NA |
| Jun 2022 | | World Cinema | Networking Systems Software and Services | Operator, designer, and optimizer of fiber optic networks in the United States | M&A | NA | NA | NA |
| Jun 2022 | whypercore hypercore | nitel | Diversified Communications | Provider of internet protocol-based wired and wireless networking services | M&A | NA | NA | NA |
| Jun 2022 | Annuity Agents Alliunce | INTEGRITY MARKETIVE SESOP | Diversified Communications | Provider of turn-key digital, radio, and presentation annuity lead systems | M&A | NA | NA | NA |
| Jun 2022 | TELECOM CONSULTING GROUP | # TELARUS | Diversified Communications | Provider of telecommunications consulting, brokerage, and distribution services | M&A | NA | NA | NA |
| Jun 2022 | DATABANK | DIGITALBRIDGE SWISSLEE | Data Centers and Colocation | Provider of managed IT services designed to offer uninterrupted access to customer data and applications | M&A | \$4,444 | NA | NA |
| Jun 2022 | Asia Connectivity Elements | Coronado 🍅 | Diversified Communications | Operator of a carrier neutral cable landing station and a data center in Guam | M&A | NA | NA | NA |
| Jun 2022 | LIS DATA CENTERS | STCAP | Data Centers and Colocation | Operator of data center real estate and infrastructure investment platform | M&A | NA | NA | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|--------------------------------------|--------------------------------|--|---|---------------------|------------------|------------|-----------|
| Jun 2022 | eoni | ziply fiber | Networking Systems Software and Services | Provider of broadband services to residential and commercial customers across Northeast Oregon | M&A | NA | NA | NA |
| Jun 2022 | Visual Systems Group | SOLUTIONZ | Diversified Communications | Provider of integrated videoconferencing, data, and network services | M&A | NA | NA | NA |
| May 2022 | (22) | o kinetic | Core Cloud Infrastructure Technology | Operator of wireless telecommunication infrastructure | M&A | NA | NA | NA |
| May 2022 | mycomosi | amdocs | Networking Systems Software and Services | Provider of 5G assurance applications and solutions | M&A | NA | NA | NA |
| May 2022 | S E N T I N E L | GI PARTNERS | Data Centers and Colocation | Operator of highly networked and energy efficient data center | M&A | NA | NA | NA |
| May 2022 | Pareteum | venture House | Networking Systems Software and Services | Operator of mobile virtual network enabler business and associated contracts | M&A | \$60 | NA | NA |
| May 2022 | LIGHT SOLUTOR | 🗥 DC BLOX | Networking & Communications Equipment | Operator of fiber networks including a unique dark fiber network | M&A | NA | NA | NA |
| May 2022 | DATA GILL Loss (November Carrioss | Index ¹ Exchange | Data Centers and Colocation | Provider of data management services to a variety of industries | M&A | NA | NA | NA |
| May 2022 | HAWAIKI | BW DIGITAL | Networking & Communications Equipment | Operator of a submarine cable system committed to improving connectivity | M&A | NA | NA | NA |
| May 2022 | ARCHER DATACENTERS | evoque data center solutions | Diversified Communications | Operator of a data center | M&A | NA | NA | NA |
| May 2022 | LOGIX FIBER NETWORKS | Astra CAPITAL MANAGEMENT | Unified Communications | Provider of fiber-based enterprise voice and data services | Private Placement | \$100 | NA | NA |
| May 2022 | SIGNAL | mobilitie | Networking & Communications Equipment | Provider of telecommunications infrastructure for U.S. military bases | M&A | NA | NA | NA |
| May 2022 | switch | DIGITALBRIDGE Jin | Data Centers and Colocation | Provider of colocation space and related services | M&A | \$10,579 | 16.9x | 35.0x |
| May 2022 | () INAP | U NITAS G LOBAL | Core Cloud Infrastructure Technology | Provider of premium blends of IP transit for customers within its own colocation and cloud connectivity ecosystem | M&A | NA | NA | NA |
| May 2022 | airtower: NETWORKS | DIF CAPITAL PARTNERS | Core Cloud Infrastructure Technology | Developer, owner, and operator of wireless digital infrastructure | M&A | NA | NA | NA |
| May 2022 | ASSIA | 5725 | Networking Systems Software and Services | Provider of customer experience management and access network optimization solutions | M&A | NA | NA | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|---|--|--|---|---------------------|------------------|------------|-----------|
| Apr 2022 | GTN | edgeconnex* | Data Centers and Colocation | Operator of data centers intended to provide assistance to growing businesses | M&A | \$2,500 | NA | NA |
| Apr 2022 | W atchGuard | ✓ VECTOR CAPITAL | Diversified Communications | Developer of network intelligence products dedicated to making enterprise-grade security | M&A | NA | NA | NA |
| Apr 2022 | NTT Security | SYNOPSYS" | Diversified Communications | Developer of a risk management platform designed to offer website security services | M&A | \$330 | NA | NA |
| Apr 2022 | FICOLO | D/9 DIGITAL INFRASTRUCTURE | Core Cloud Infrastructure Technology | Provider of data center and cloud services | M&A | \$139 | NA | NA |
| Apr 2022 | GATESAIR | THOMSON | Unified Communications | Manufacturer of multi-channel television and radio transmitters | M&A | NA | NA | NA |
| Apr 2022 | DIGITALBRIDGE | Wafra | Core Cloud Infrastructure | Provider of digital infrastructure investment management services | M&A | NA | NA | NA |
| Apr 2022 | U NITAS G LOBAL | DIGITAL ALPHA | Networking Systems Software and Services | Provider of next-generation network services that offer automated ubiquitous edge access to cloud | M&A | NA | NA | NA |
| Apr 2022 | MOUNDRIDGE COMMUNICATIONS MITMORE se as the Tolegoractions; | NEXTECH | Networking Systems Software and Services | Provider of communications networking solutions intended to offer internet access and telephone services | r M&A | NA | NA | NA |
| Apr 2022 | redline communications | Aviat | Networking & Communications Equipment | Provider of mission-critical data infrastructure in Canada | M&A | \$20 | NA | NA |
| Apr 2022 | FEDER IT | ClearShark | Diversified Communications | Provider of IT consulting services intended to facilitate an efficient and secure supply chain | M&A | NA | NA | NA |
| Apr 2022 | Barracuda | KKR | Diversified Communications | Provider of online security products and services designed to secure all threat vectors on-site or in the cloud | M&A | \$4,000 | NA | NA |
| Apr 2022 | @SailPoint | THOMABRAVO | Diversified Communications | Provider of enterprise identity governance solutions | M&A | \$6,900 | 17.1x | NA |
| Apr 2022 | LightRiver | G RAIN | Diversified Communications | Provider of optical network integration technology systems and associated services | M&A | NA | NA | NA |
| Mar 2022 | Cincinnati Bell (now Altafiber) | MACQUARIE | Data Centers and Colocation | Delivers integrated communications solutions to residential and business customers | M&A | \$2,900 | NA | NA |
| Mar 2022 | Consolidated communications | HORIZON | Networking & Communications Equipment | Operator of 450 route miles of fiber networks in Ohio | M&A | NA | NA | NA |
| Mar 2022 | BULLSEYE O. | Eurigo" Coul diversit autors, Commission | Unified Communications | Provider of integrated communications services | M&A | NA | NA | NA |
| Mar 2022 | empire | ANTIN | Diversified Communications | Provider of telecommunications services and technologies | Private Placement | NA | NA | NA |
| Mar 2022 | Net Fortris | SANG <u>®</u> MA | Unified Communications | Provider of UCaaS and managed IT network services | M&A | \$80 | NA | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|--|-----------------------------|--|--|---------------------|------------------|------------|-----------|
| Mar 2022 | ZIMPERIUM . | LIBERTY | Networking Systems Software and Services | Developer of a mobile threat defense platform | M&A | \$529 | NA | NA |
| Mar 2022 | plantronics. | hp | Unified Communications | Designer and manufacturer of communications equipment | M&A | \$3,280 | 2.0x | 28.8x |
| Mar 2022 | c telenet | االنظامة. DIGITALBRIDGE | Networking & Communications Equipment | Mobile telecommunications tower business | M&A | \$820 | NA | NA |
| Mar 2022 | SIMFLOFY | Objective | Diversified Communications | Operator of a content integration platform | M&A | NA | NA | NA |
| Mar 2022 | MARCOM | - - In teractiveTel | Diversified Communications | Provider of automotive dealership telephone training | M&A | NA | NA | NA |
| Mar 2022 | ASTC. | CENTERLINE CONSUMERIOR | Networking Systems Software and Services | Provider of engineering and technical support services intended for the wireless industry | M&A | NA | NA | NA |
| Mar 2022 | A FET LOSE | helpsystems | Networking Systems Software and Services | Developer of security SaaS software | M&A | NA | NA | NA |
| Mar 2022 | MANDIANT | Google | Networking Systems Software and Services | Developer of incident response, threat intelligence, automated response, and managed security software | M&A | \$5,888 | 9.2x | NA |
| Mar 2022 | edgecast | Limelight | Networking Systems Software and Services | Provider of media content delivery services intended for cloud security and video streaming | M&A | \$319 | NA | NA |
| Mar 2022 | Ethioxica (dawara saman) saman ta na mi | Zayo | Diversified Communications | Provider of data and communication services | M&A | NA | NA | NA |
| Mar 2022 | () INTEGRA | net2phone | Networking Systems Software and Services | Provider of IT consultancy services intended to support contact centers | M&A | NA | NA | NA |
| Mar 2022 | TCG | magna | Networking Systems Software and Services | Provider of managed IT and cybersecurity services | M&A | NA | NA | NA |
| Feb 2022 | ROBIN | Rakuten Symphony | Networking Systems Software and Services | Developer of an application virtualization platform | M&A | NA | NA | NA |
| Feb 2022 | SecureLink. | imprivata i | Networking Systems Software and Services | Provider of VPNs and shared desktop solutions | M&A | NA | NA | NA |
| Feb 2022 | AREA 1. | CLOUDFLARE | Networking Systems Software and Services | Developer of threat intelligence software | M&A | \$162 | NA | NA |
| Feb 2022 | HEARTLAND SOLUTIONS COM | THAYER POWERS COMMUNICATION | Core Cloud Infrastructure Technology | Provider of construction and contracting services focused on the wireless communication sector | M&A | NA | NA | NA |
| Feb 2022 | COMMUNICATIONS | CENTERLINE COMMUNICATIONS | Core Cloud Infrastructure Technology | Provider of turnkey wireless telecommunications infrastructure services | M&A | NA | NA | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|-------------------------------|---|---|---|---------------------|------------------|------------|-----------|
| Feb 2022 | WiFiber | Viatel | Diversified Communications | Provider of broadband services | M&A | NA | NA | NA |
| Feb 2022 | ImOn | Godman Sactis Asset Management | Unified Communications | Provider of internet, video and voice services to residential and commercial customers | M&A | NA | NA | NA |
| Feb 2022 | Simfony | TOFANE | Networking Systems Software and Services | Developer of mobile virtual network enabler platform | M&A | NA | NA | NA |
| Feb 2022 | 🛕 EnergyX | REDIVIDER IS CONSTRUCTED IN CONSTRUCT FOR CONSTRUCT | Core Cloud Infrastructure Technology | Developer of next-generation data center infrastructure | M&A | NA | NA | NA |
| Feb 2022 | RESONANT | muRata INNIVATOR IN ELECTRONICS | Networking & Communications Equipment | Designer of radio frequency filters | M&A | \$295 | NA | NA |
| Feb 2022 | ♣ <u>ARROW</u> | resideo | Communications Technology Distributors | Distributor of data communications, connectivity and security products. | M&A | \$15 | NA | NA |
| Feb 2022 | © CHIRISA | STRATEGIC CAPITAL FUND MANAGEMENT | Data Centers and Colocation | Triple net leased data center located in the Denver metropolitan area | M&A | \$14 | NA | NA |
| Feb 2022 | afrıcêll | MODAE | Core Cloud Infrastructure Technology | Selected Infrastructure Assets | M&A | NA | NA | NA |
| Feb 2022 | GOWIRELESS | mws | Communications Technology Distributors | Distributor of wireless infrastructure communications products | M&A | NA | NA | NA |
| Jan 2022 | √ CHNGE. | I IS DATA CENTERS | Data Centers and Colocation | Seven data centers (Nashville, Philadelphia, Pittsburgh, Portland, Secaucus, St. Louis, and St. Paul) | M&A | NA | NA | NA |
| Jan 2022 | citrix | VISTA | Diversified Communications | Provider virtualization software | M&A | \$16,655 | 5.0x | 27.1x |
| Jan 2022 | mobileum | H. L. G. | Networking Systems Software and Services | Provider of data analytics services intended for the telecommunication sector | Private Placement | NA | NA | NA |
| Jan 2022 | ⊘ airtel | Google | Diversified Communications | Provider of a variety of telecommunications services | Private Placement | \$700 | NA | NA |
| Jan 2022 | BLUE DANUBE Ar Rec Conquin | NEC | Networking & Communications Equipment | Developer of mobile wireless access systems | M&A | NA | NA | NA |
| Jan 2022 | Y EXUS | METR UNET | Diversified Communications | Provider of fiber-based communications | IPO/Merger | NA | NA | NA |
| Jan 2022 | PIPG | cloudastructure | Networking & Communications Equipment | Developer of an on-premise appliance that manages secure IoT defined networks | M&A | NA | NA | NA |



| Date | Target | Acquirer | Sector | Target Description | Transaction Type | Implied EV (\$M) | EV/Revenue | EV/EBITDA |
|----------|--|----------------------------------|---|--|---------------------|------------------|------------|-----------|
| Jan 2022 | ← CyrusOne. | DATABANK | Data Centers and Colocation | Four data centers in Houston, Texas | M&A | \$670 | NA | NA |
| Jan 2022 | COLOHOUSE | STEADFAST C A P I T A L | Networking Systems Software and Services | Provider of managed cloud and colocation services | M&A | NA | NA | NA |
| Jan 2022 | QOS | Zayo | Networking Systems Software and Services | Provider of fiber-based communications solutions | M&A | NA | NA | NA |
| Jan 2022 | <u>CENTERLINE</u> | \triangle Audax Private Equity | Core Cloud Infrastructure Technology | Designer and builder of wireless and wireline network infrastructure | M&A | NA | NA | NA |
| Jan 2022 | SDI Black 011 LLC Mango Tel LLC SDI Wireless | CUENTAS | Communications Technology Distributors | The operations and distribution network of prepaid wireless and digital providing business | M&A | \$3 | NA | NA |
| Jan 2022 | emilel | Cordiant | Core Cloud Infrastructure Technology | Operator of terrestrial radio and television infrastructure | M&A | \$478 | NA | NA |
| Jan 2022 | Wood River Network | GREAT PLAINS COMMUNICATIONS | Core Cloud Infrastructure Technology | Builder and operator of fiber networks in Nebraska | M&A | NA | NA | NA |
| Jan 2022 | Consolidated communications | ALINDA | Diversified Communications | Kansas City fixed broadband assets | M&A | \$90 | NA | NA |



D.A. Davidson's Diversified Financial Services

About **D.A. Davidson**

D.A. Davidson provides investment banking, wealth management, nationally-recognized research, and advisory services - with an 88-year track record of excellence.

D.A. Davidson is headquartered in the United States, with a growing footprint across 30 states and Canada.

Our **Differentiated Approach**

We focus on building relationships with companies we believe in, relationships in which the value greatly exceeds the total of the transactions we've completed on our clients' behalf.

As a 100% employee-owned company, we don't need to rush clients to meet quarterly goals. Our vision is for the long-term.

National Leadership Across Three Lines Of Business

EQUITY CAPITAL MARKETS

Executing transactions and conducting research across verticals

Solutions backed by industry expertise and experience across including consumer, diversified industrials, financial institutions, and technology verticals

- Investment Banking
- Institutional Research
- Sales & Trading

WEALTH MANAGEMENT

Providing trusted advice through life's key moments

Straightforward advice and personalized strategies and solutions to help plan for, and work towards, clients' financial objectives

- Wealth & estate planning
- Retirement planning
- Investment and Portfolio Management

FIXED INCOME CAPITAL MARKETS

A leader in fixed income financing and distribution

Nationally-recognized leader in raising capital through fixed income banking, distribution, and repository strategy

- Public Finance underwriting, debt financing, placement agent, and consultation
- Sales & Trading bond market investing and strategies

Our **Results**

\$662M

NET REVENUE \$65B

ASSETS UNDER ADMINISTRATION \$326M

SHAREHOLDERS' EQUITY 100%

EMPLOYEE OWNERSHIP 1,600+

EMPLOYEES

100+

OFFICE LOCATIONS



D.A. Davidson Is One Of The Most Active Tech Banks, With 110+ Deals Closed Since 2020

Our **Services**

M&A ADVISORY

Advising clients through a range of M&A strategies including sell-side and buy-side acquisitions, mergers, and divestitures - working with both strategic and financial parties across our global network

PUBLIC EQUITY

Tailored public financing solutions including IPOs, ATMs, PIPEs, and Preferred Securities Offerings - distributed through hundreds of institutional relationships and a broad network to bring your story to investors

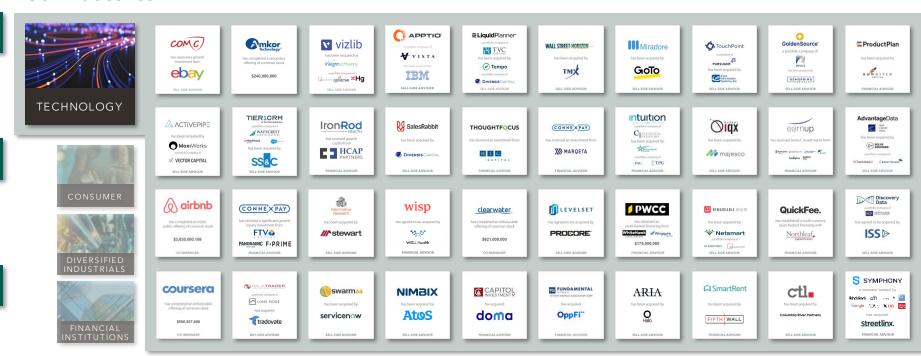
PRIVATE **PLACEMENTS**

Curated private offerings to carefully selected and vetted parties, including institutional investors

CORPORATE **ADVISORY**

Services for companies and executives looking for experience, product knowledge, and guidance

Our **Industries**



Delivering Superior Outcomes For Our Clients

110+

TRANSACTIONS

\$21B+

DEAL VALUE

50+

M&A TRANSACTIONS

DEBT & EQUITY FINANCINGS



ATLANTA, GEORGIA

BOSTON, MASSACHUSETTS

CHICAGO, ILLINOIS

DENVER, COLORADO

GREAT FALLS, MONTANA

NEW YORK, NEW YORK

ORANGE COUNTY, CALIFORNIA

PORTLAND, OREGON

SALT LAKE CITY, UTAH

SEATTLE, WASHINGTON



FRANKFURT, GERMANY

HAMBURG, GERMANY

HELSINKI, FINLAND

LONDON, UNITED KINGDOM

STOCKHOLM, SWEDEN

Advisory Platform Supported By Robust Transaction Capabilities

1. Public Markets

Tailored public markets equity financing and market connectivity

Senior-level expertise and attention providing clients flexibility through a range of solutions and hundreds of institutional relationships

- Initial Public Offerings (IPOs)
- At-the-Market Offerings (ATM) •
- Convertible Securities Offerings
 - Private Investment in Public Equities (PIPEs)
- Preferred Securities Offerings Unit Investment Trusts (UITs)

2. Financial Sponsor Coverage

Adding value at every stage of the investment

Our team works with hundreds of funds across the globe, bringing an unwavering focus to helping middle market private equity firms and family offices generate returns for their investors

3. Debt Advisory

Unique solutions across the capital spectrum

Our debt capital markets specialists work with companies and financial sponsors to optimize the capital stack by structuring and placing senior and junior debt utilizing our network of over 300 lending relationships



4. International Footprint

Transatlantic M&A platform and global deal experience

D.A. Davidson partners with MCF International to leverage the power of our network of decision makers and investors across the US and Europe - and have completed 250+ transactions across 27+ continents

Key Contacts



Tim Monfort Managing Director Managing Director





Yaron Redlich

Zach Rosen Managing Director Managing Director





Amy Johnson Clinton Miyazono Managing Director Managing Director





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Partner, MCF



D.A. Davidson Has Robust Resources Dedicated To Financial Sponsor Coverage

D.A. Davidson provides in-depth coverage of private equity firms that invest in Communications Technology and Digital Infrastructure businesses

Team **Overview**

Value Creation: D.A. Davidson works to deliver high-quality middle-market deal flow and impeccable execution

Robust Coverage: In-depth coverage of the financial sponsor community, from mega funds to family offices

Access: Proven relationships with decision makers unlocks client access to capital across the spectrum from equity to debt and from control to growth and minority

Trusted Partnership: A reliable, long-term partner to private equity, consistently selling deals to and for financial sponsors



YARON REDLICH MANAGING DIRECTOR **HEAD OF FINANCIAL SPONSORS**



ZACH ROSEN MANAGING DIRECTOR FINANCIAL SPONSORS

Sell-Side Advisory

















Buy-Side Advisory

























abry partners

IB BESSEMER

INVESTCORP











SELECT RELATIONSHIPS

















FTV

LIGHTYEAR CAPITAL

STG





















LONG RIDGE





Sumeru







Wide-Reaching Debt Advisory Capabilities In Tune With Current Debt Markets

Our debt team offers credit market intelligence, bespoke credit financing solutions, market reach, private equity peer intelligence, industry depth and market visibility

Team **Overview**

Access: The Debt Advisory team maintains contacts across asset management organizations to provide solutions to our clients regardless of the situation

Optimal Outcomes: D.A. Davidson leverages deep industry expertise to optimize a Company's positioning and employs credit knowledge to address key risks and mitigating factors in the financing memorandum

Optionality: The combination of market knowledge and credit positioning allows for a multitude of financing options to meet clients' needs

Robust Coverage: Debt Advisory works with public companies, sponsorbacked companies, founder and family-owned businesses and their investors



AMY JOHNSON MANAGING DIRECTOR. **HEAD OF DEBT ADVISORY**



CLINTON MIYAZONO MANAGING DIRECTOR. **DEBT ADVISORY**

SELECT RELATIONSHIPS

Brookfield



STEVEN FLEISHER DIRECTOR **DEBT ADVISORY**



NOMURA



PIMCO











STONE POINT CAPITAL









Select Transactions



SummitIG

has completed a

unitranche credit facility in

support of majority sale to

FINANCIAL ADVISOR



































has completed a

public offering of

senior notes

\$69,000,000



Leading Investment Bank With Cloud Infrastructure and Communications Expertise

Highly knowledgeable team with significant transaction experience and strong industry relationships



BRAD GEVURTZ

MANAGING DIRECTOR, COMMUNICATIONS TECHNOLOGY INVESTMENT BANKING

PORTLAND, OR (503) 603-3060 bgevurtz@dadco.com Brad Gevurtz is a Managing Director in the Investment Banking group, focused on the technology sector. He has been with D.A. Davidson since 2005 and during his time with the firm has served as the Head of Investment Banking and as a member of the Board of Directors and the Public Equity Commitment Committee. Prior to D.A. Davidson, Mr. Gevurtz worked for over 20 years on Wall Street as a senior banker at JPMorgan Chase, KeyBanc Capital Markets and Broadview Int'l (now Jefferies). He has significant experience in M&A, private placements and public offerings, and has advised some of the largest companies in the world on technology transactions. Mr. Gevurtz started his career at AT&T and has executed M&A and capital raising transactions worldwide for public and private communications companies such as Allen Telecom, Alltel, AT&T, Fastly, Limelight, Lumos, Radisys, Towerstream, Vast Networks, Verizon, Wavecom, and Zayo. He is a current board member and President of his regional ACG, an investor in numerous private equity and venture capital funds, a former board member of Thinking Machines Corporation (parallel processing software company), and a former member of the valuation committee of OVP Venture Partners. Mr. Gevurtz has spoken at industry conferences and has been quoted in numerous publications about corporate finance and M&A issues. He holds a B.A. with Distinction in Economics from Pomona College, a J.D. from the University of Oregon School of Law, and an MBA with Honors in Finance and Accounting from Columbia University where he was elected President of the top academic honor society.



AMY JOHNSON

MANAGING DIRECTOR, COMMUNICATIONS TECHNOLOGY INVESTMENT BANKING

NEW YORK, NY (212) 882-3909 asjohnson@dadco.com Amy Johnson is a Managing Director focused on the Communications and Digital Infrastructure ecosystem for the Technology Investment Banking group and also leads Davidson's Debt Advisory practice. Previously, Ms. Johnson was a managing director and head of debt advisory at The Bank Street Group LLC where she executed investment banking and capital markets transactions for private and public companies spanning fiber networks, data centers, subsea cable, mobile wireless and wireless infrastructure including 365 Data Centers, AboveNet Inc., Airband Communications, Alpheus Communications, ColoAtl/American Tower, Digital Crossroads, GeoLinks, Hibernia Networks, Highwinds Network Group, OnFiber Communications and Pocket Communications. Ms. Johnson was previously an Executive Director at Swiss Bank Corporation/SBC Warburg (now UBS) where she executed nearly \$10 billion in debt capital markets transactions for a variety of blue-chip companies. Ms. Johnson graduated with honors from the University of Notre Dame with a B.B.A. in Finance. Upon graduation, she joined Chase Manhattan Bank in New York and completed their formal credit training program before serving in the bank's New York middle market lending division.



D.A. Davidson Knows Communications Technology

Connect with our team of industry professionals



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D.A. Davidson & Co.'s Investment Banking division is a leading full-service investment bank that offers comprehensive financial advisory and capital markets expertise. The group has extensive experience serving middle market clients worldwide across four industry verticals: consumer, diversified industrials, financial institutions, and technology.

Please visit our website for additional information.



Together with its European partner, MCF Corporate Finance, D.A. Davidson originates and executes transatlantic M&A transactions under the common brand of D.A. Davidson MCF International.

Please visit the D.A. Davidson MCF International <u>website</u> for additional information.

MCF Corporate Finance office locations are Frankfurt, Hamburg, Helsinki, London, and Stockholm. Visit the MCF website for additional information.

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