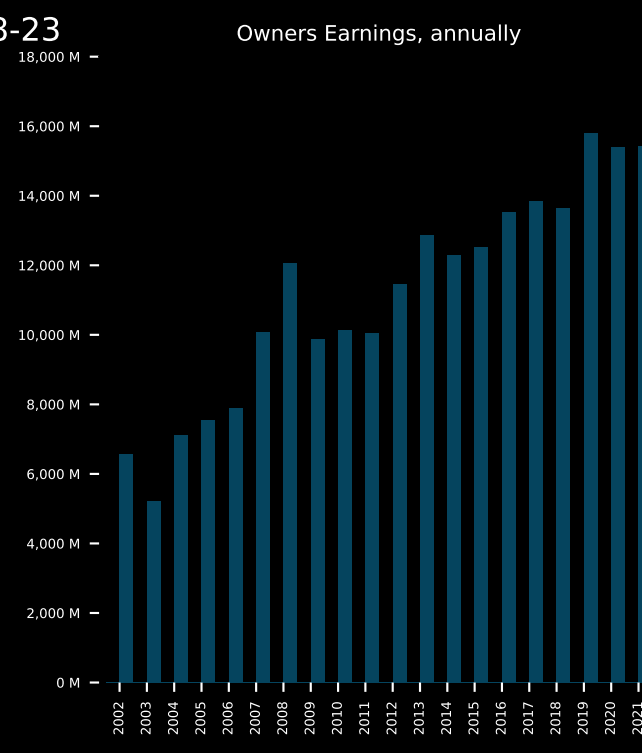
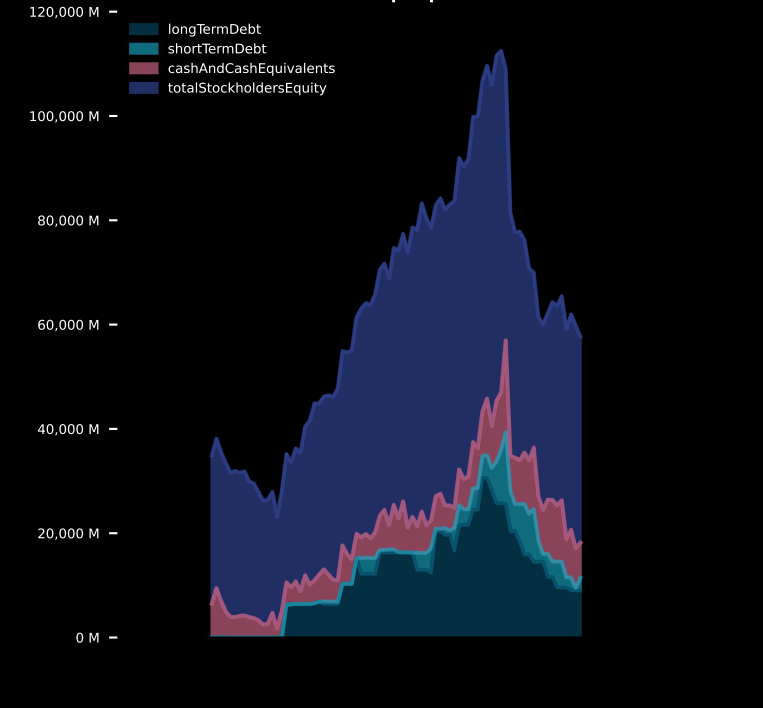
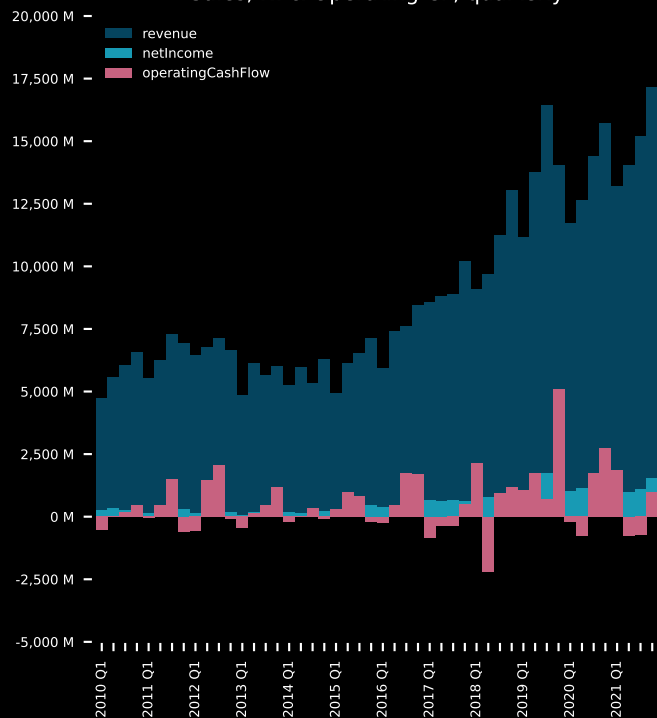


SCO / Communication Equipment / US / 2022-08-23

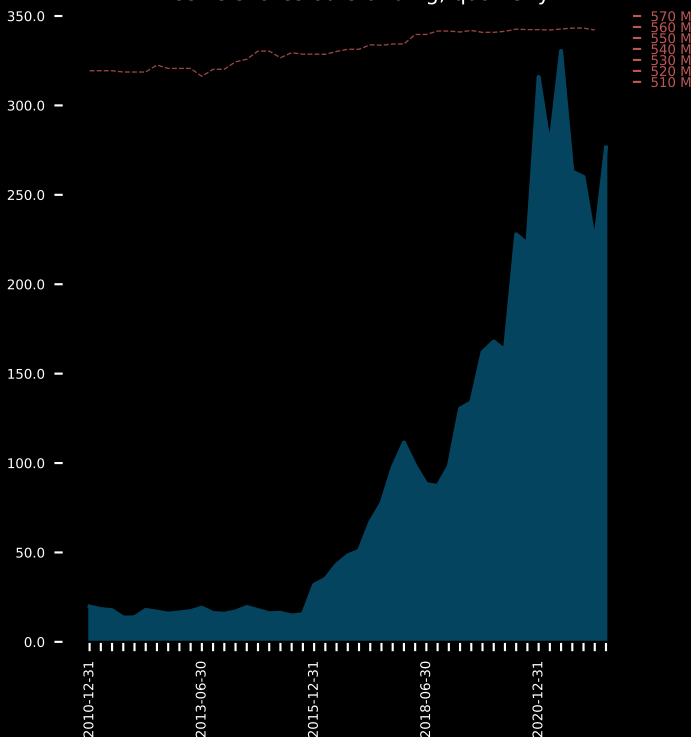


Cisco Systems, Inc. designs, manufactures, and sells Internet Protocol based networking and other products related to the communications and information technology industry in the Americas, Europe, the Middle East, Africa, the Asia Pacific, Japan, and China. It provides infrastructure platforms, including networking technologies of switching, routing, wireless, and data center products that are designed to work together to deliver networking capabilities, and transport and/or store data. The company also offers collaboration products comprising unified communications, Cisco TelePresence, and conferencing, as well as the Internet of Things and analytics software. In addition, it provides security products, such as network security, cloud and email security, identity and access management, advanced threat protection, and unified threat management products. Further, the company offers a range of service and support options for its customers, including technical support and advanced services. It serves businesses of various sizes, public institutions, governments, and service providers. The company sells its products and services through its "direct sales" model, which includes sales through its own sales force, as well as through its indirect sales model, which includes sales through its channel partners, including resellers, integrators, and managed service providers.

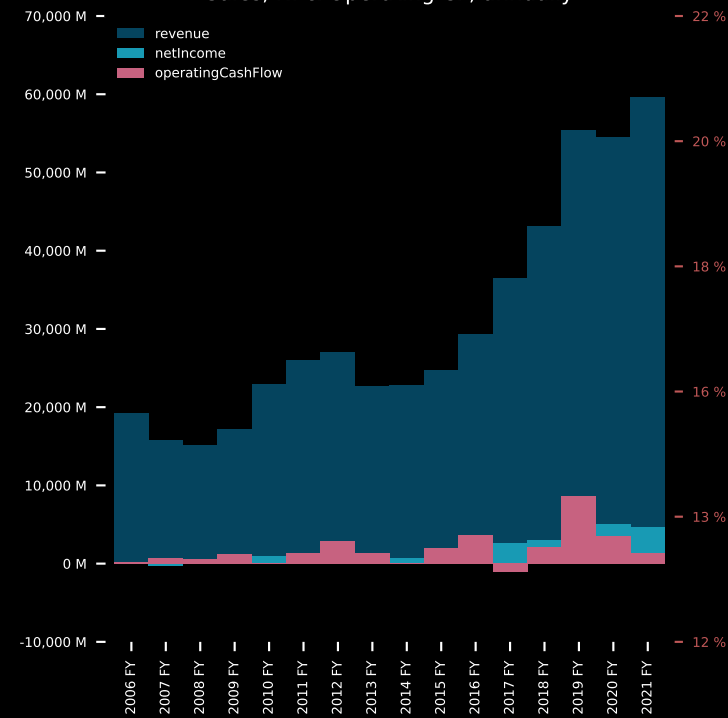
Sales, NI & Operating CF, quarterly



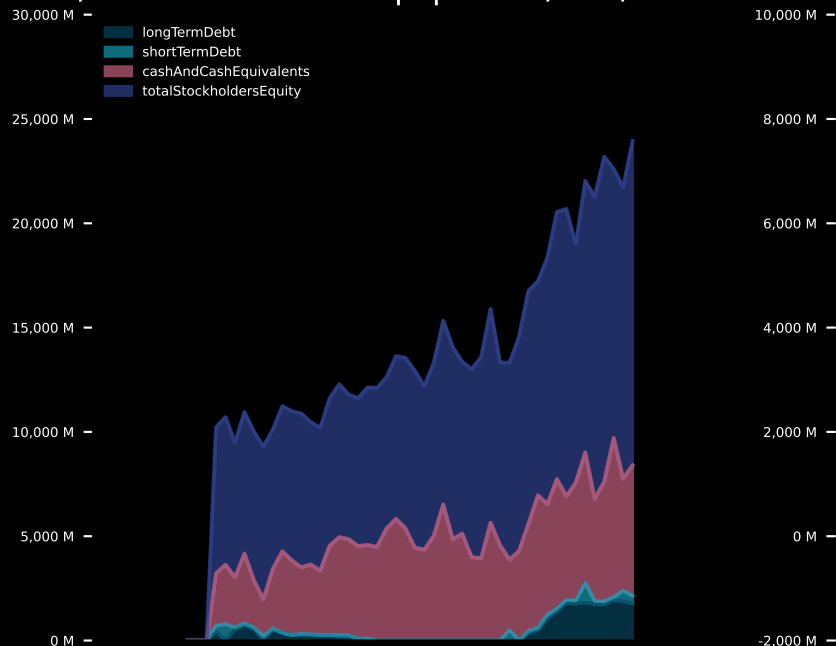
Price vs shares outstanding, quarterly



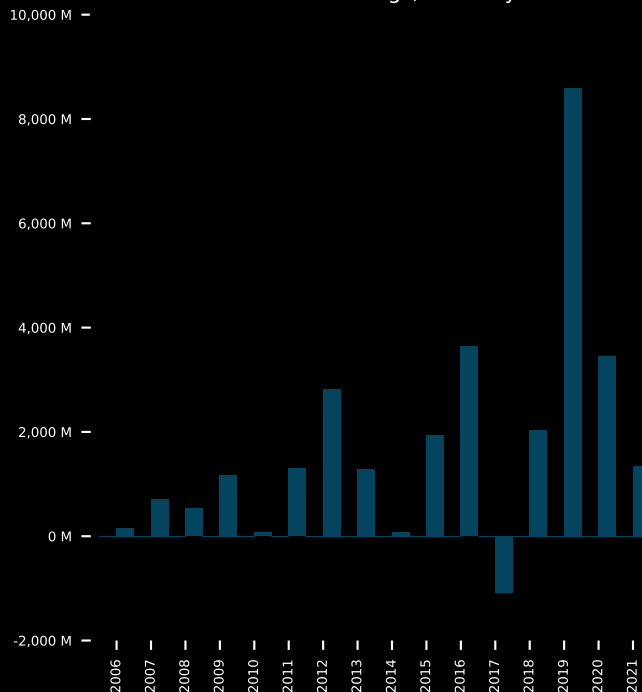
Sales, NI & Operating CF, annually



5.TW / Communication Equipment / US / 2022-08-23



Owners Earnings, annually

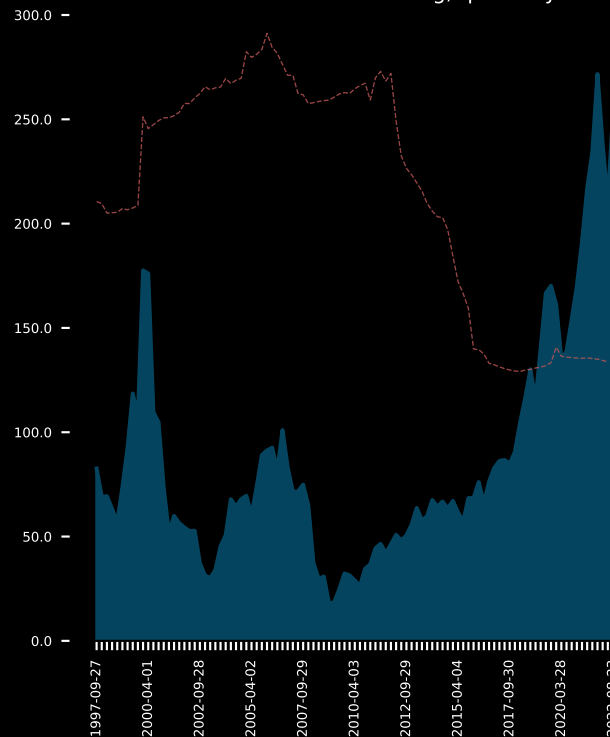


Accton Technology Corporation researches and develops, manufactures, and sells network communication equipment in the United States, Europe, Taiwan, rest of Asia, and internationally. It offers computer network system products; and wireless land area network hardware and software products, as well as provides technical consulting and engineering design services. The company also provides information software and technology services, e-commerce apps, and advertising services; switching hubs and high-end network switches; data center switches, open packet transponders with coherent optics, cloud server appliances, flash storage systems, and smart network interface controllers; carrier access solutions; and wired, wireless, and software-defined wide-area network solutions. In addition, it offers IoT integration solution; and cloud-based video surveillance solutions. Accton Technology Corporation was incorporated in 1988 and is headquartered in Hsinchu City, Taiwan.

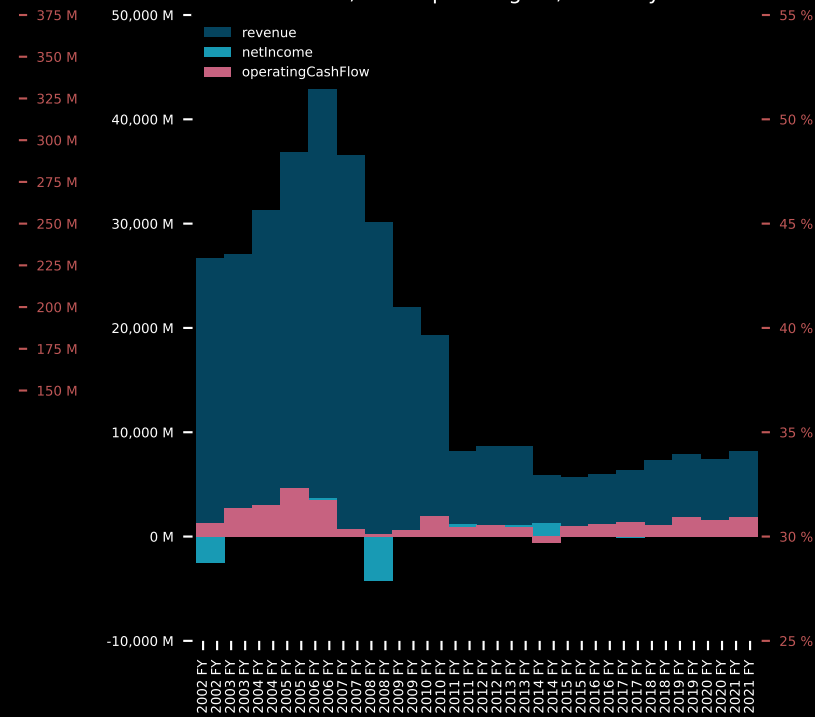
Sales, NI & Operating CF, quarterly



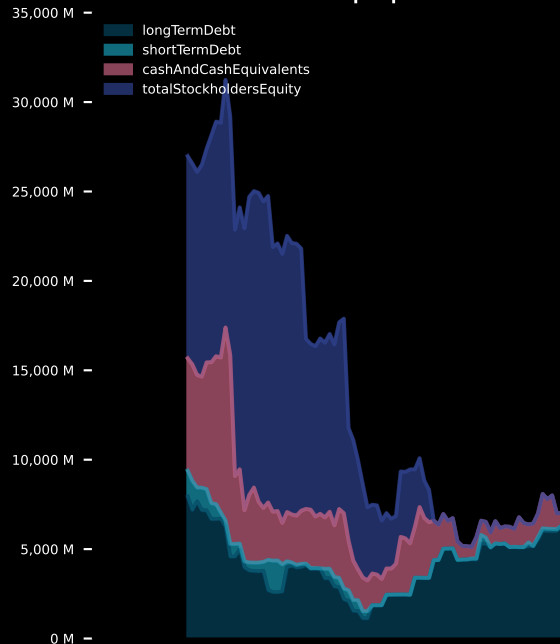
Price vs shares outstanding, quarterly



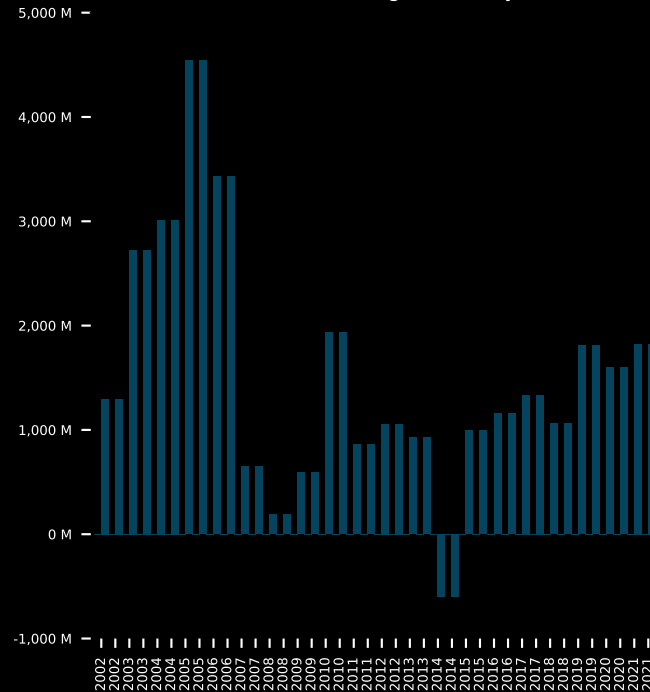
Sales, NI & Operating CF, annually



MSI / Communication Equipment / US / 2022-08-23



Owners Earnings, annually

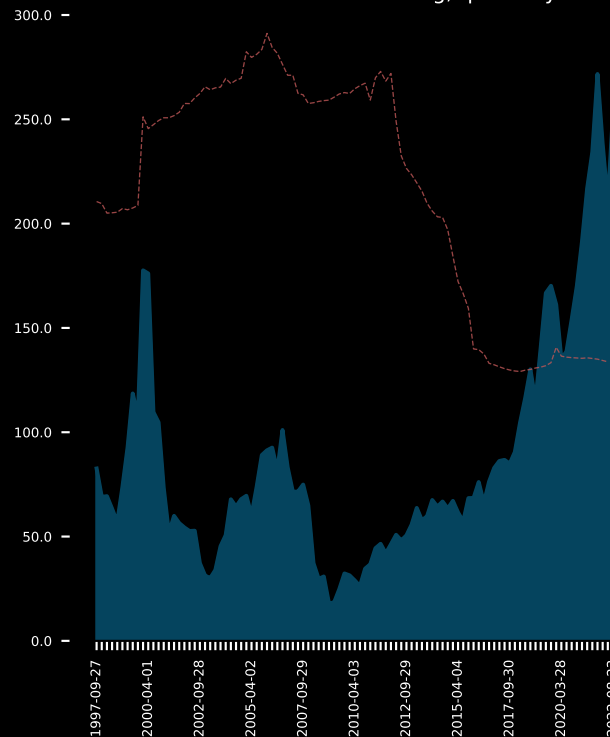


Motorola Solutions, Inc. provides mission critical communications and analytics in the United States, the United Kingdom, Canada, and internationally. The company operates in two segments, Products and Systems Integration, and Software and Services. The Products and Systems Integration segment offers a portfolio of infrastructure, devices, accessories, and video security devices and infrastructure, as well as the implementation, and integration of systems, devices, software, and applications for government, public safety, and commercial customers who operate private communications networks and video security solutions, as well as manage a mobile workforce. Its land mobile radio communications and video security and access control devices include two-way portable and vehicle-mounted radios, fixed and mobile video cameras, and accessories; radio network core and central processing software, base stations, consoles, and repeaters; and video analytics, network video management hardware and software, and access control solutions. The Software and Services segment provides repair, technical support, and hardware products and services. This segment offers

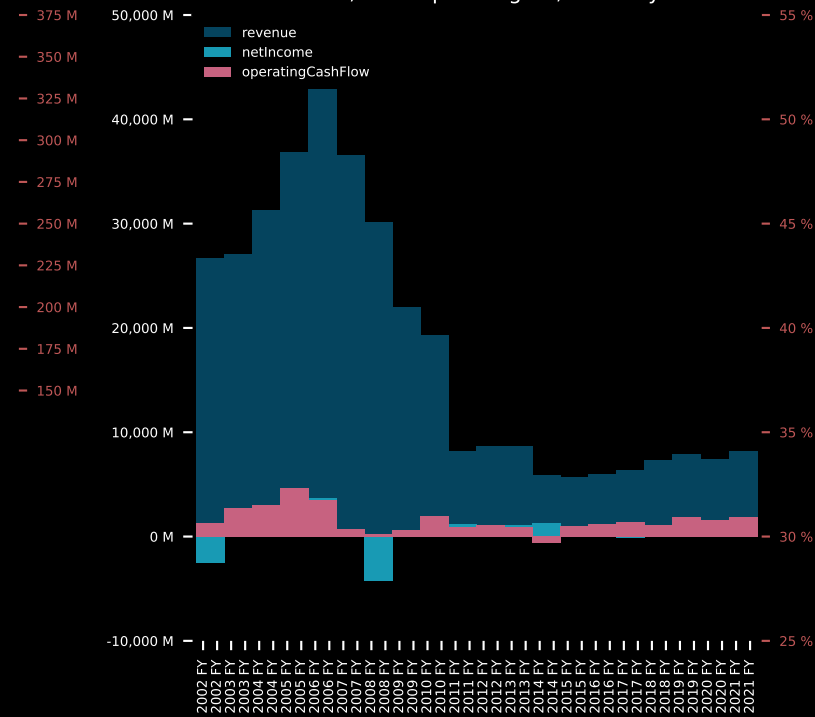
Sales, NI & Operating CF, quarterly



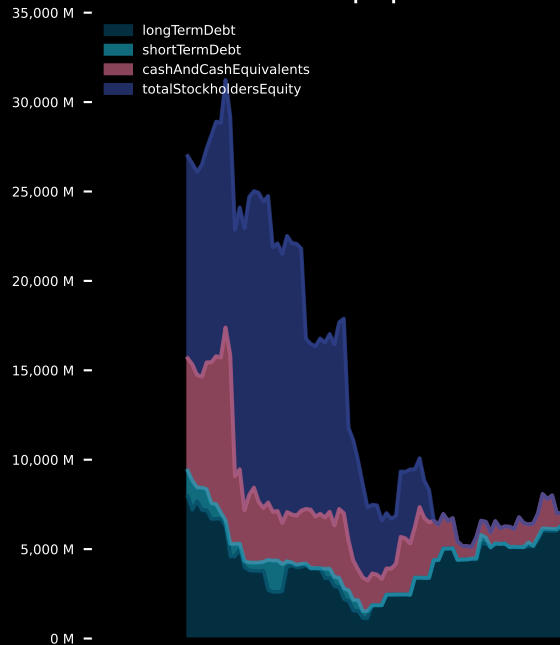
Price vs shares outstanding, quarterly



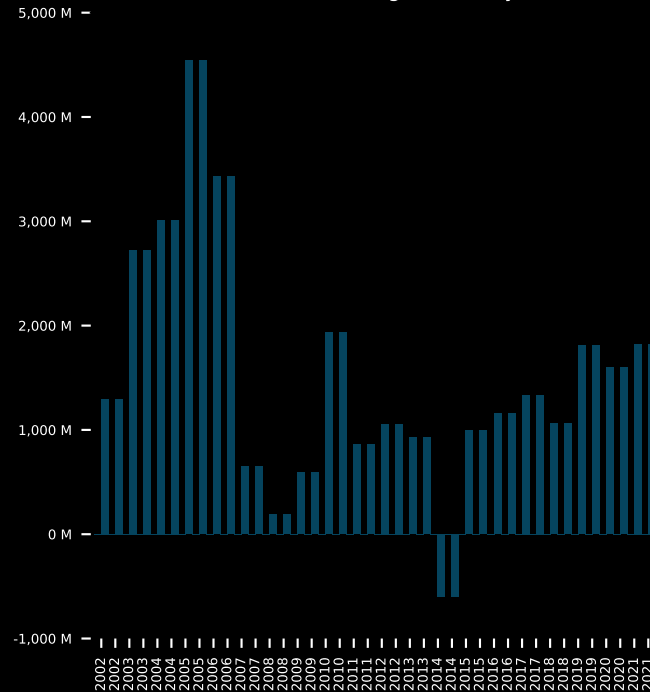
Sales, NI & Operating CF, annually



MSI / Communication Equipment / US / 2022-08-23



Owners Earnings, annually

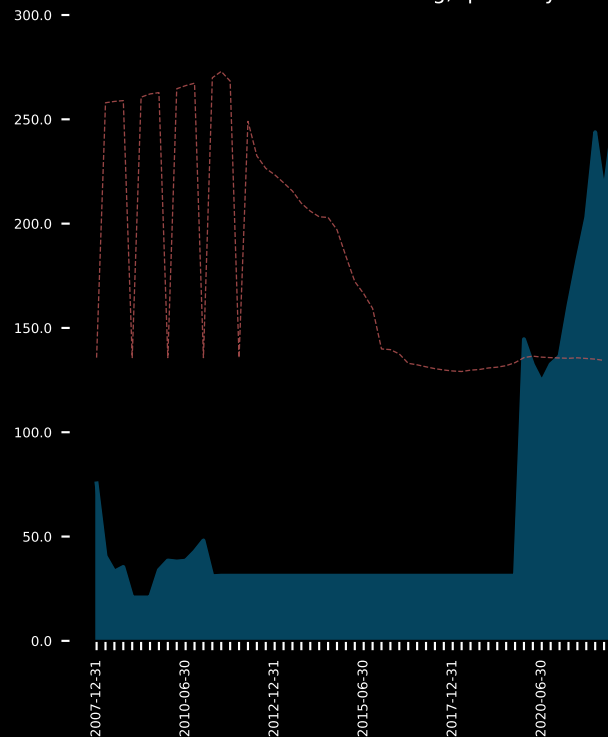


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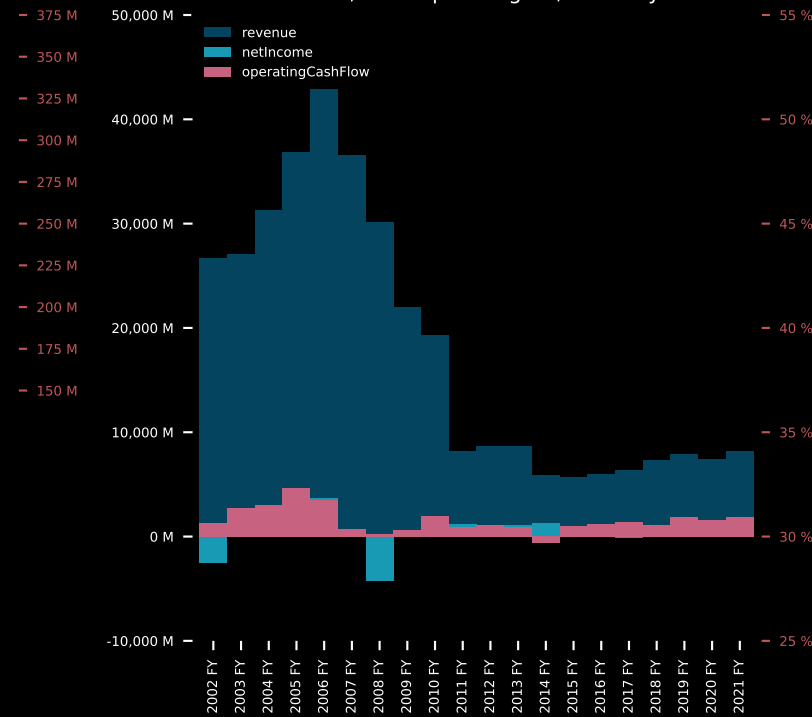
Sales, NI & Operating CF, quarterly



Price vs shares outstanding, quarterly



Sales, NI & Operating CF, annually



A.DE / Communication Equipment / US / 2022-08-23

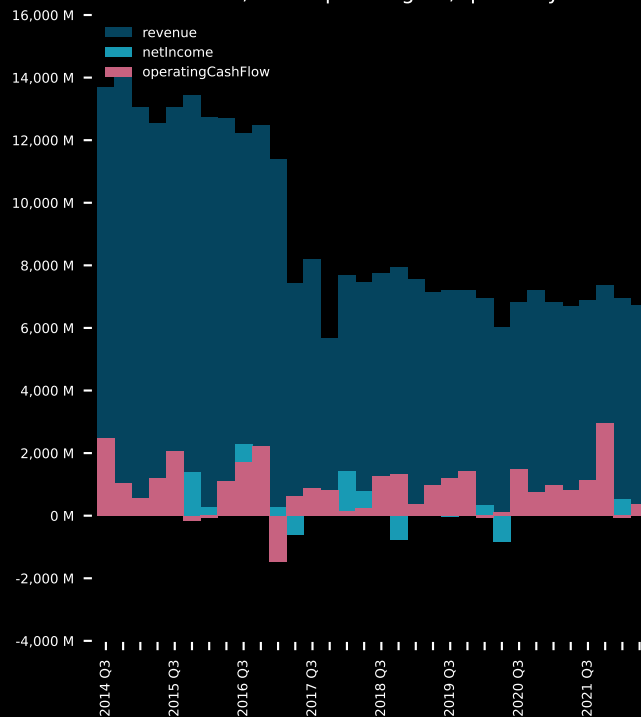


Owners Earnings, annually

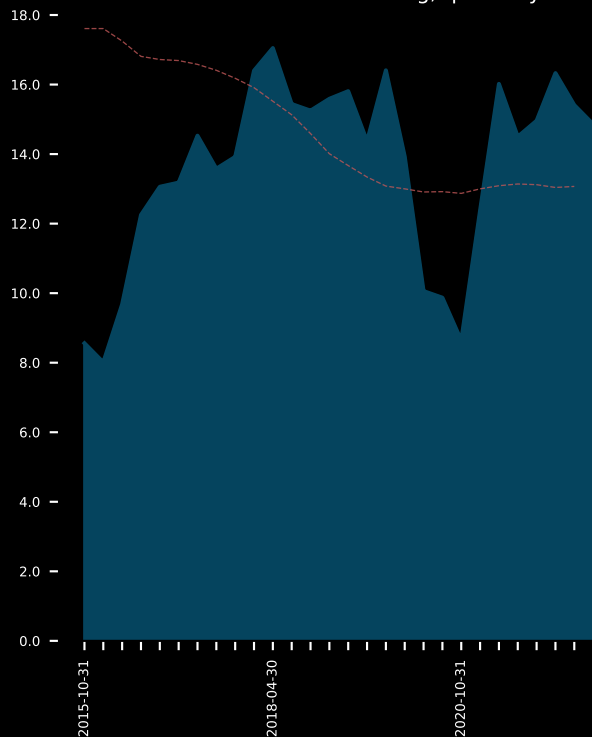


Motorola Solutions, Inc. provides mission critical communications and analytics in the United States, the United Kingdom, Canada, and internationally. The company operates in two segments, Products and Systems Integration, and Software and Services. The Products and Systems Integration segment offers a portfolio of infrastructure, devices, accessories, and video security devices and infrastructure, as well as the implementation, and integration of systems, devices, software, and applications for government, public safety, and commercial customers who operate private communications networks and video security solutions, as well as manage a mobile workforce. Its land mobile radio communications and video security and access control devices include two-way portable and vehicle-mounted radios, fixed and mobile video cameras, and accessories; radio network core and central processing software, base stations, consoles, and repeaters; and video analytics, network video management hardware and software, and access control solutions. The Software and Services segment provides repair, technical support, and hardware products and services. This segment offers

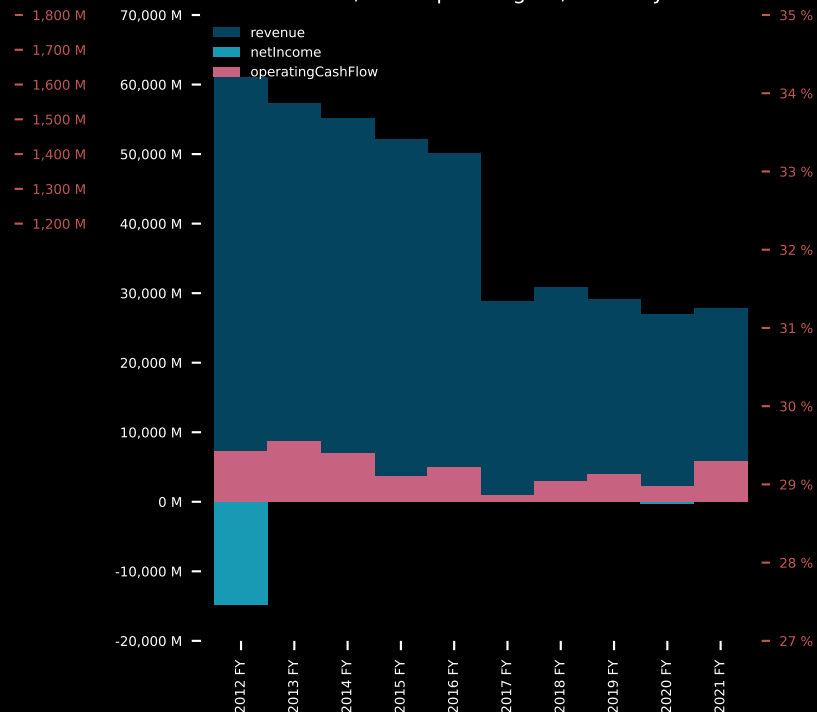
Sales, NI & Operating CF, quarterly



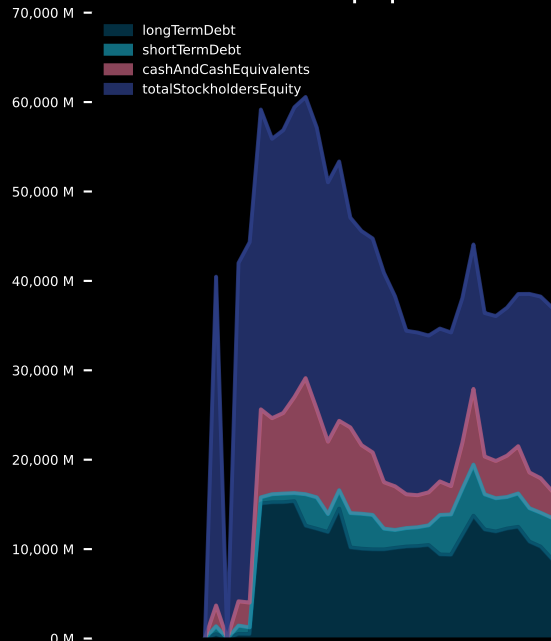
Price vs shares outstanding, quarterly



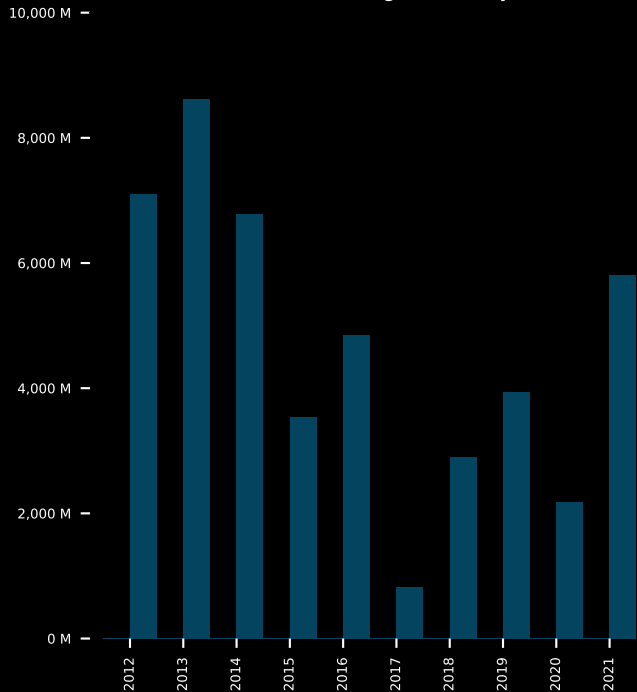
Sales, NI & Operating CF, annually



PE / Communication Equipment / US / 2022-08-23

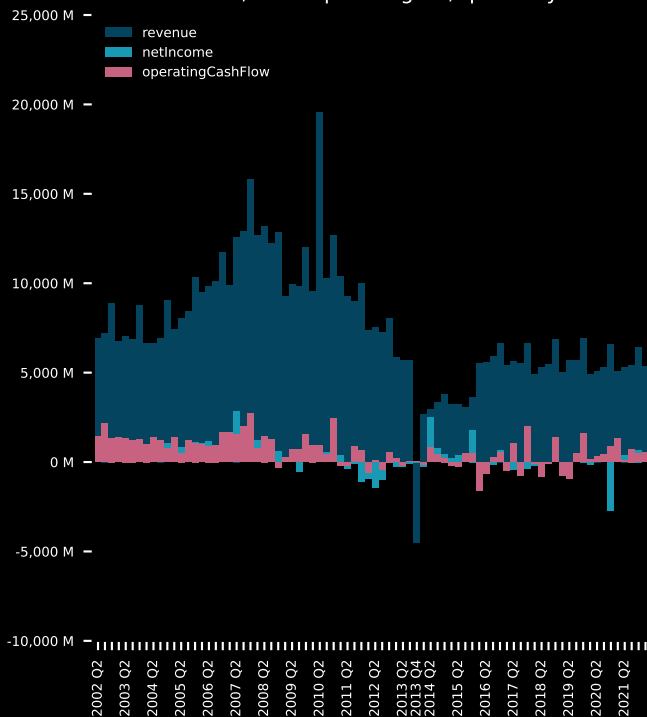


Owners Earnings, annually

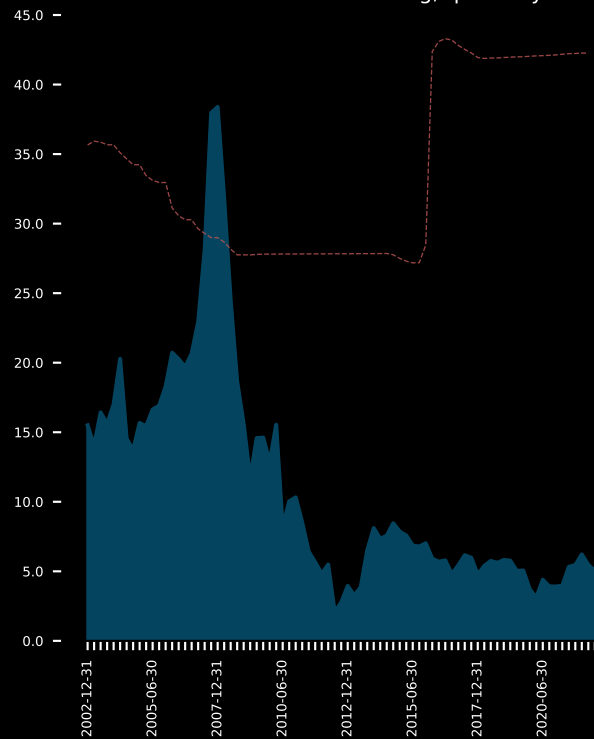


Hewlett Packard Enterprise Company provides solutions that allow customers to capture, analyze, and act upon data seamlessly in the Americas, Europe, the Middle East, Africa, the Asia Pacific, and Japan. The company offers general purpose servers for multi-workload computing and workload-optimized servers; HPE ProLiant rack and tower servers; HPE BladeSystem and HPE Synergy; and solutions for secondary workloads and traditional tape, storage networking, and disk products, such as HPE Modular Storage Arrays and HPE XP. It also offers HPE Apollo and Cray products; and HPE Superdome Flex, HPE Nonstop, HPE Integrity, and HPE Edgeline products. In addition, the company provides HPE Aruba product portfolio that includes wired and wireless local area network hardware products, such as Wi-Fi access points, switches, routers, and sensors; HPE Aruba software and services comprising cloud-based management, network management, network access control, analytics and assurance, and location; and professional and support services, as well as as-a-service and consumption models for the intelligent edge portfolio of products. Further, it

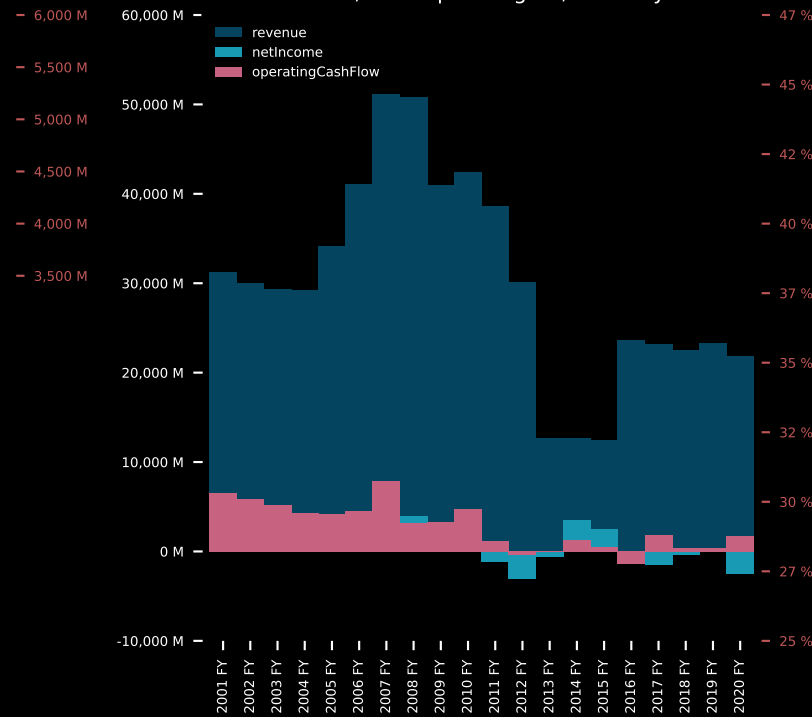
Sales, NI & Operating CF, quarterly



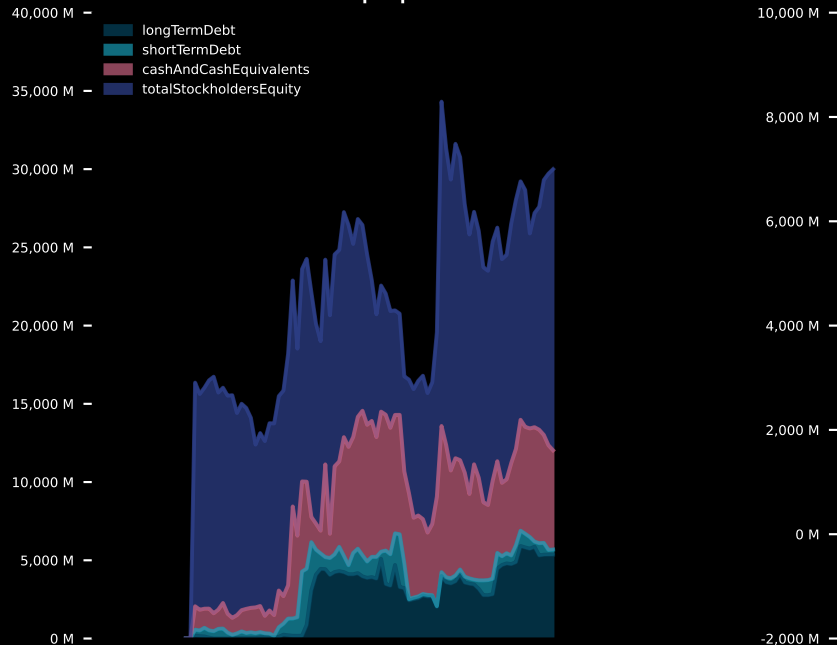
Price vs shares outstanding, quarterly



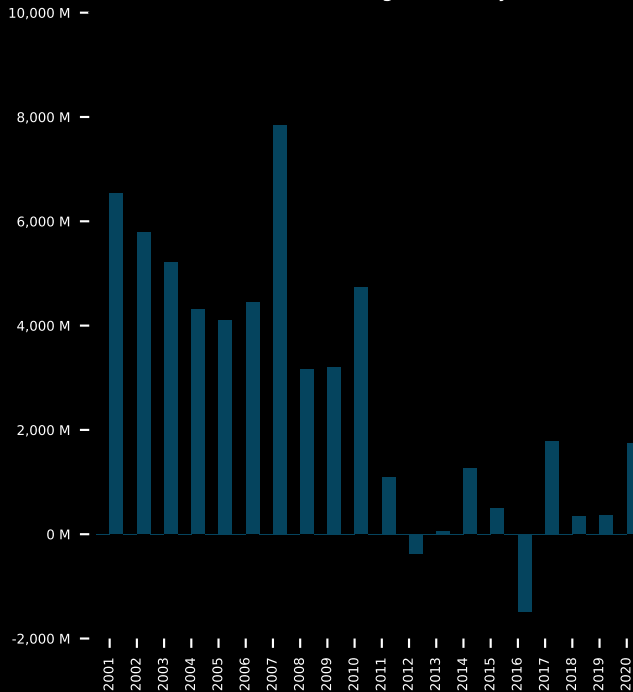
Sales, NI & Operating CF, annually



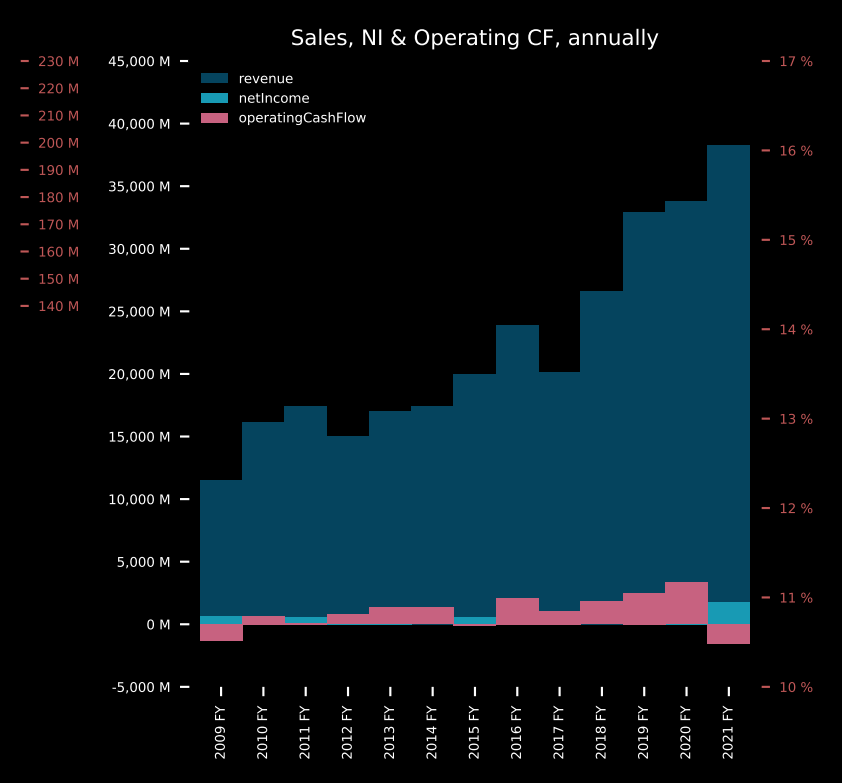
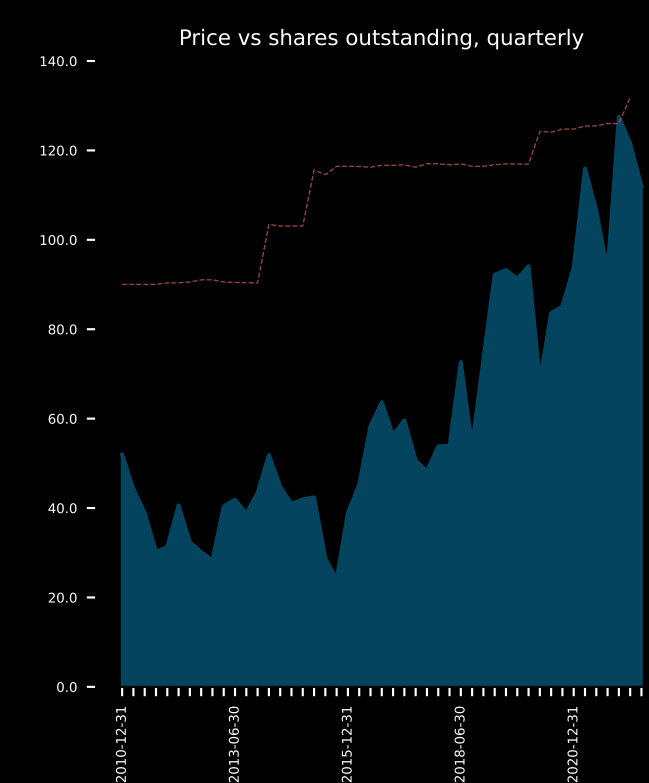
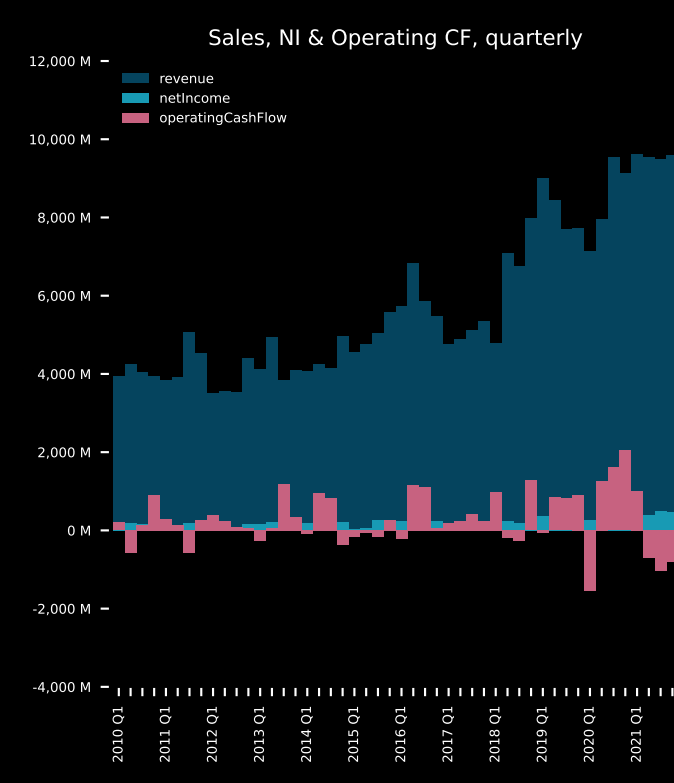
NOK / Communication Equipment / FI / 2022-08-23



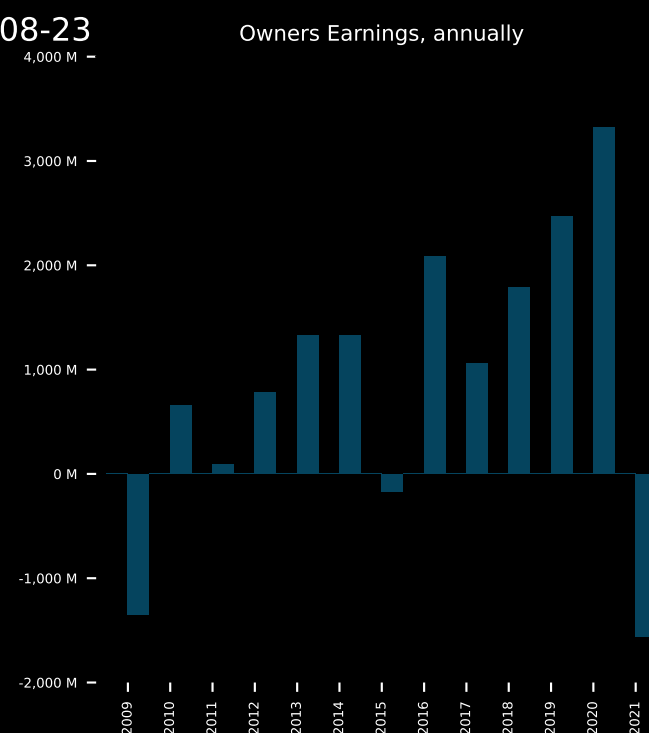
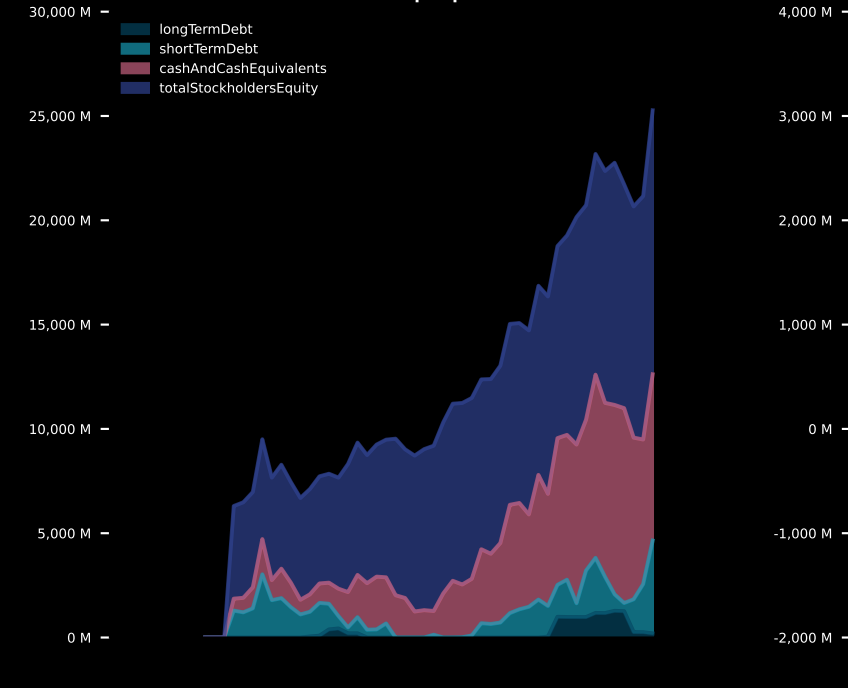
Owners Earnings, annually



Nokia Oyj provides mobile, fixed, and cloud network solutions worldwide. The company operates through four segments: Mobile Networks, Network Infrastructure, Cloud and Network Services, and Nokia Technologies. It offers products and services for radio access networks covering technologies from 2G to 5G, and microwave radio links for transport networks. The company provides fixed networking solutions, such as fiber and copper-based access infrastructure, and cloud and virtualization services, as well as wi-fi portfolio, including mesh solutions and cloud-based controllers; IP routing solutions for IP aggregation, and edge and core applications for residential, business, mobile, and industrial services; a portfolio of optical networks comprising portfolio coherent optical transponders, optical transport network switchers, wavelength-division multiplexers, reconfigurable optical add-drop multiplexer solutions, and optical line systems for metro access and aggregation, data center interconnect, regional, and long-haul/ultra-long-haul applications; and submarine networks. In addition, it offers business



6.TW / Communication Equipment / US / 2022-08-23

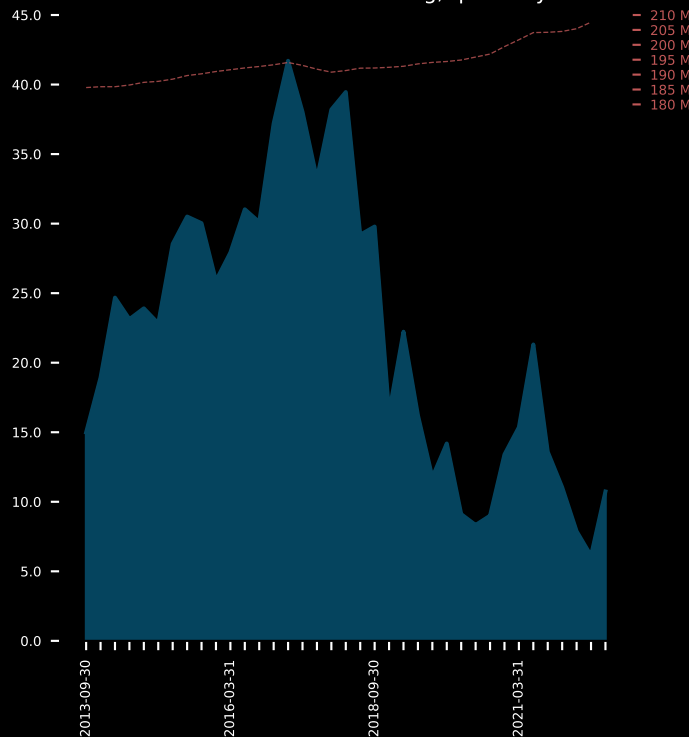


Arcadyan Technology Corporation, together with its subsidiaries, engages in the research, development, manufacture, and sale of wireless networking products, integrated access devices, digital home multimedia application, and mobile broadband products worldwide. It operates in Networking Product and Digital Set-Top Box Product segments. The company provides various broadband solutions, such as FTTx, DOCSIS, and xDSL mobile broadband products, as well as digital set-top boxes products, wireless audio and video products, etc. It also offers broadband/wireless/multimedia products for specialized design-in requirements, as well as add-on products to enhance products with wireless convenience. The company provides its solutions to telecom operators, ISPs, retailers, consumer electronic companies, and OEMs/ODMs. Arcadyan Technology Corporation was founded in 2003 and is headquartered in Hsinchu City, Taiwan.

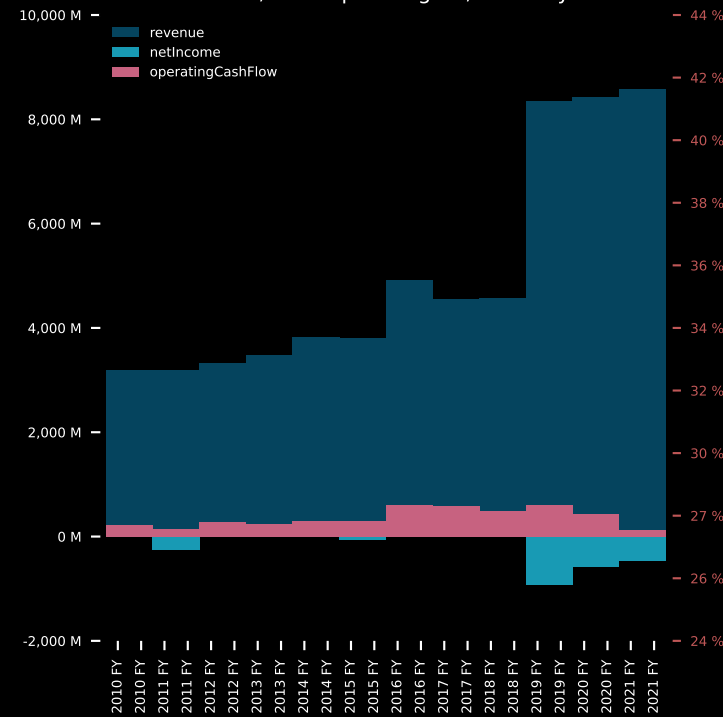
Sales, NI & Operating CF, quarterly



Price vs shares outstanding, quarterly



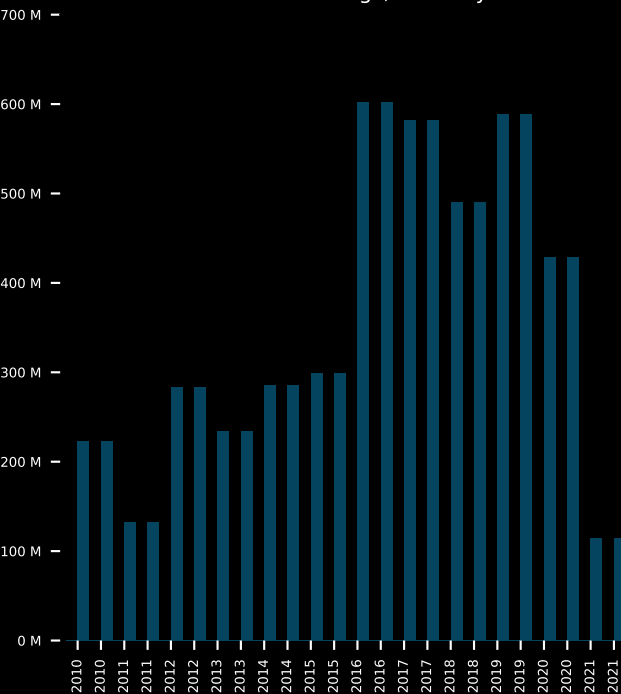
Sales, NI & Operating CF, annually



DMM / Communication Equipment / US / 2022-08-23

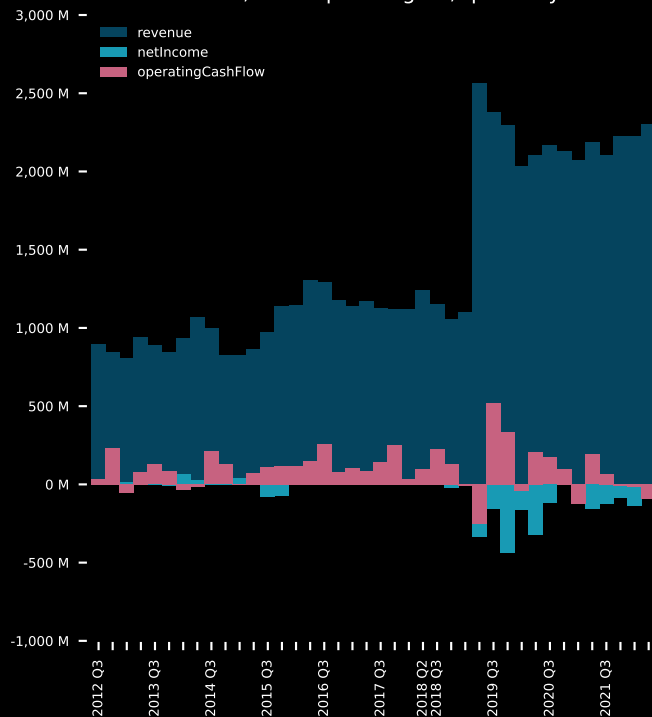


Owners Earnings, annually

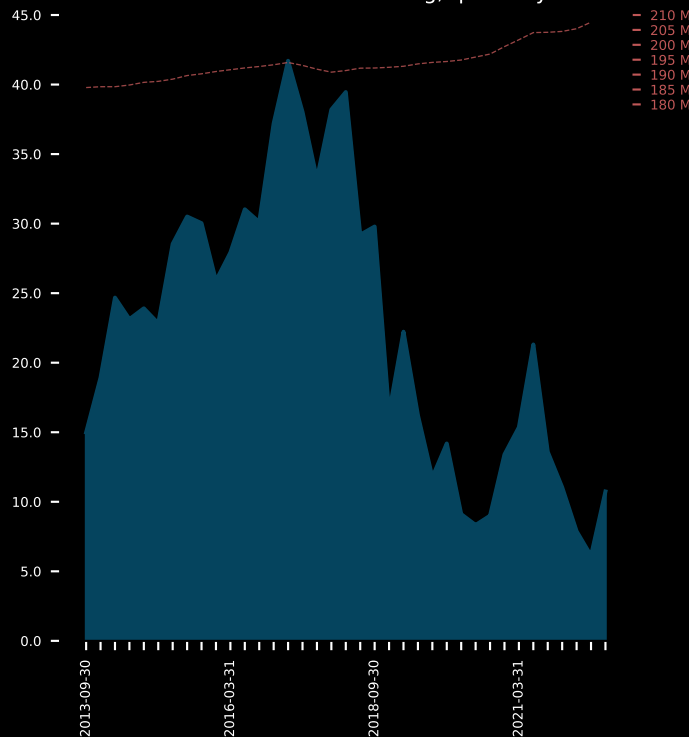


CommScope Holding Company, Inc. provides infrastructure solutions for communications and entertainment networks. It operates through four segments: Broadband Networks (Broadband), Outdoor Wireless Networks (OWN), Venue and Campus Networks (VCN), and Home Networks (Home). The Broadband segment provides converged cable access platforms, passive optical networking products, video systems, access technologies, fiber and coaxial cables, fiber and copper connectivity products, and hardened closures to the telco and cable provider broadband market. The OWN segment provides base station antennas, radio frequency filters, tower connectivity, microwave antennas, metro cell products, cabinets, steel towers, accessories, Spectrum Access System, and Comsearch products to the macro and metro cell markets. The VCN segment offers Wi-Fi and switching, distributed antenna systems, licensed and unlicensed small cells, enterprise fiber, and copper infrastructures for campuses, venues, data centers, and buildings. The Home segment provides devices and related software, and management solutions that offer

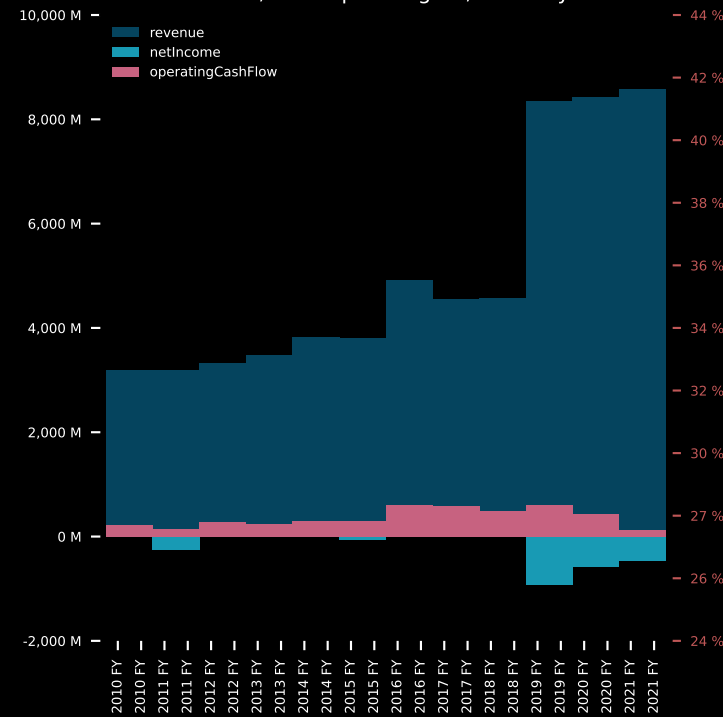
Sales, NI & Operating CF, quarterly



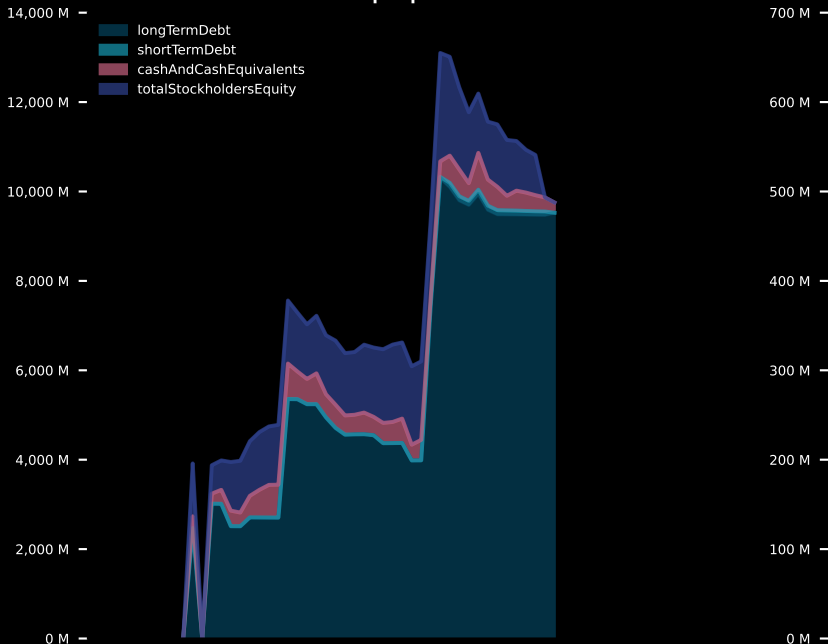
Price vs shares outstanding, quarterly



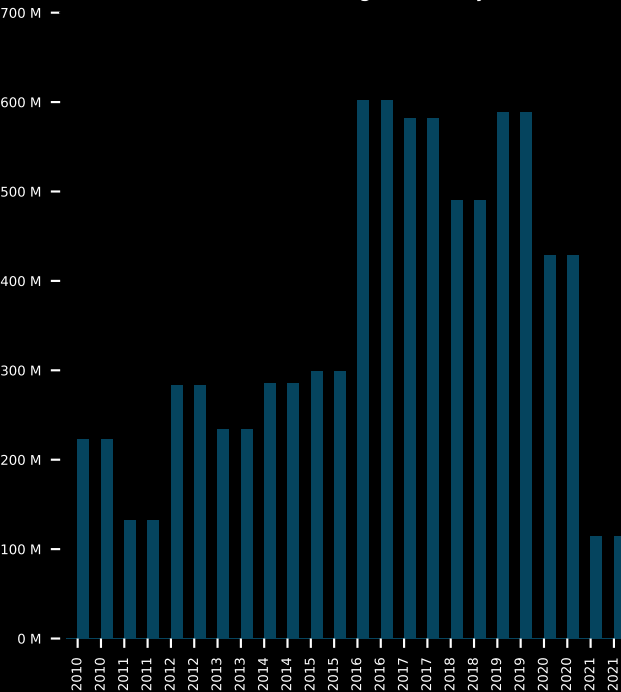
Sales, NI & Operating CF, annually



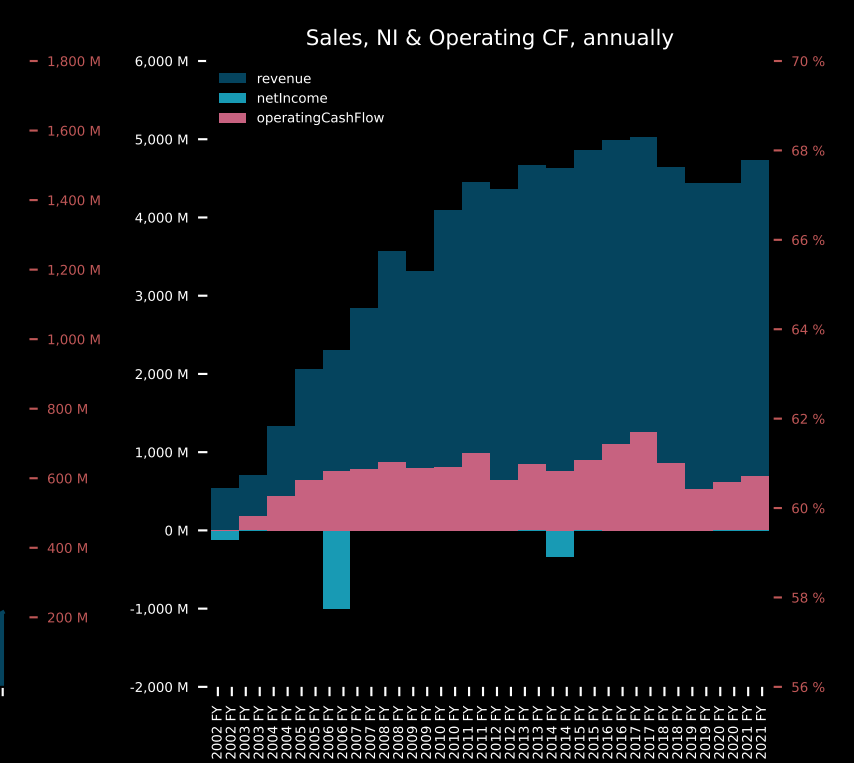
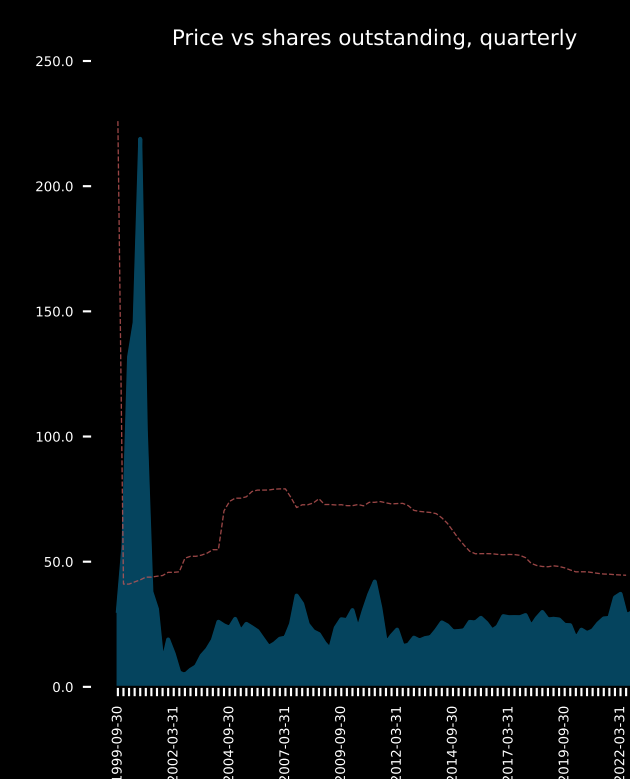
DMM / Communication Equipment / US / 2022-08-23



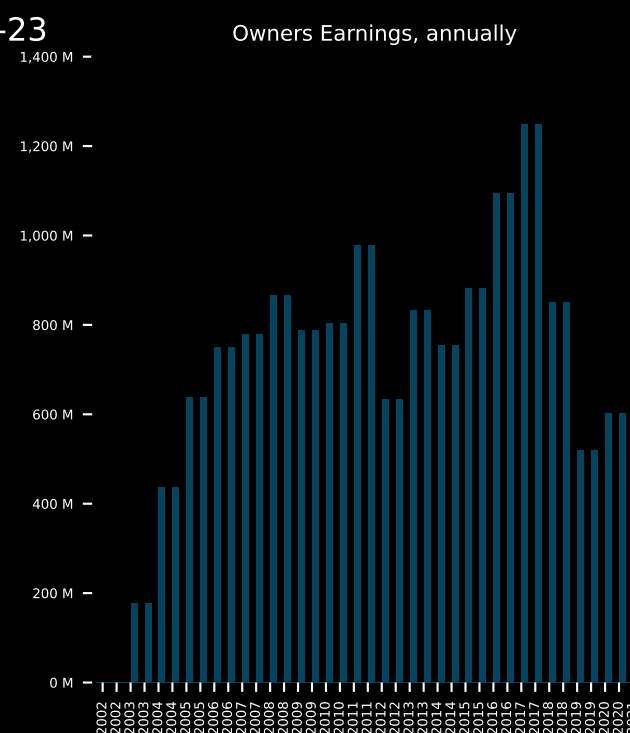
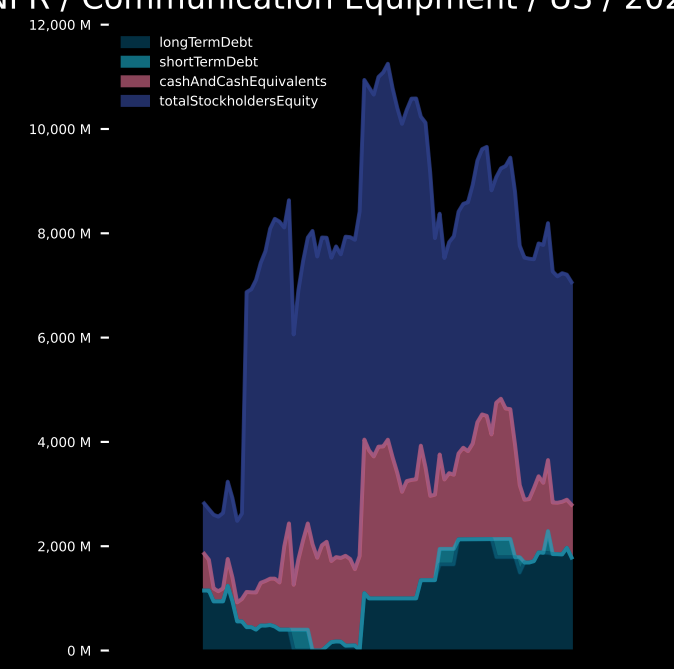
Owners Earnings, annually



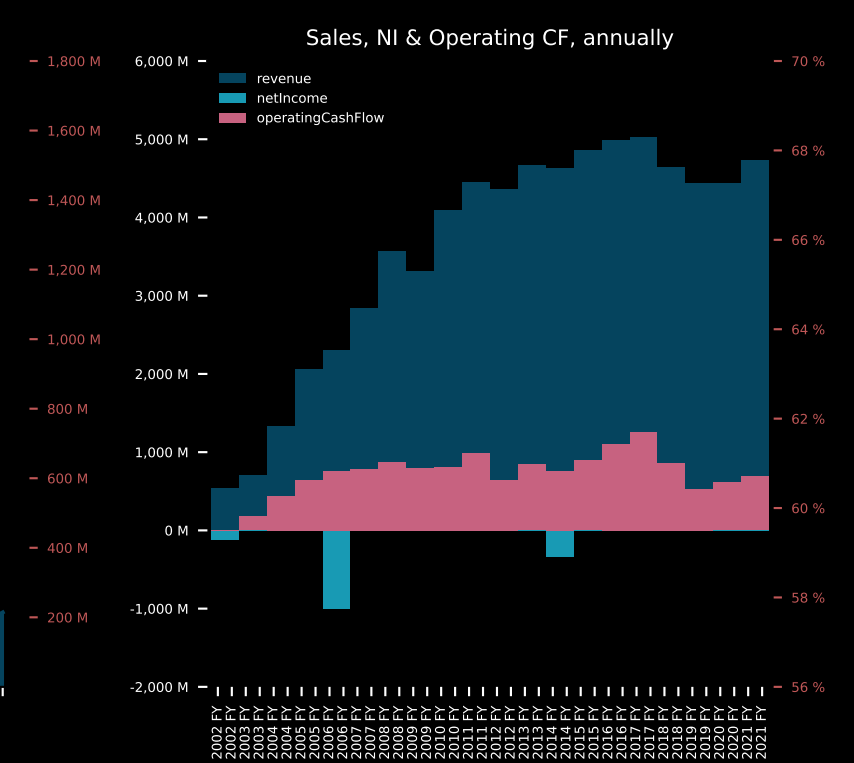
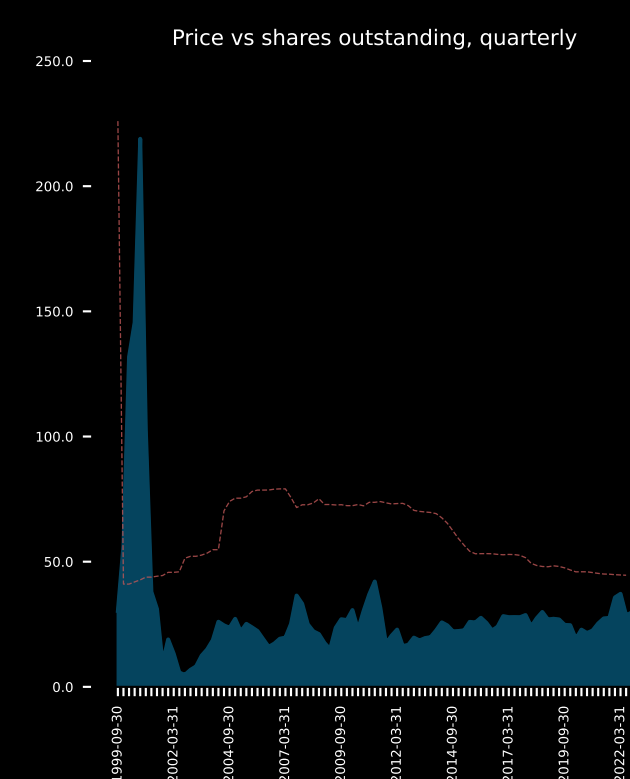
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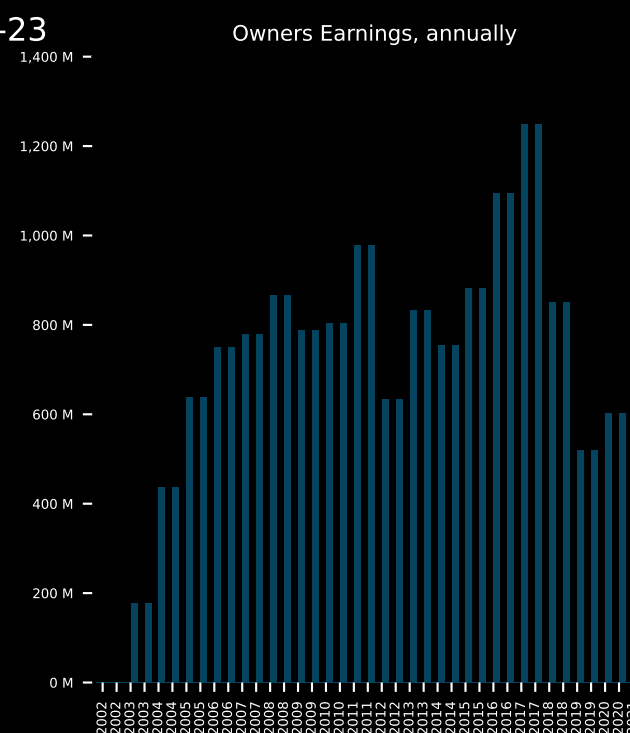
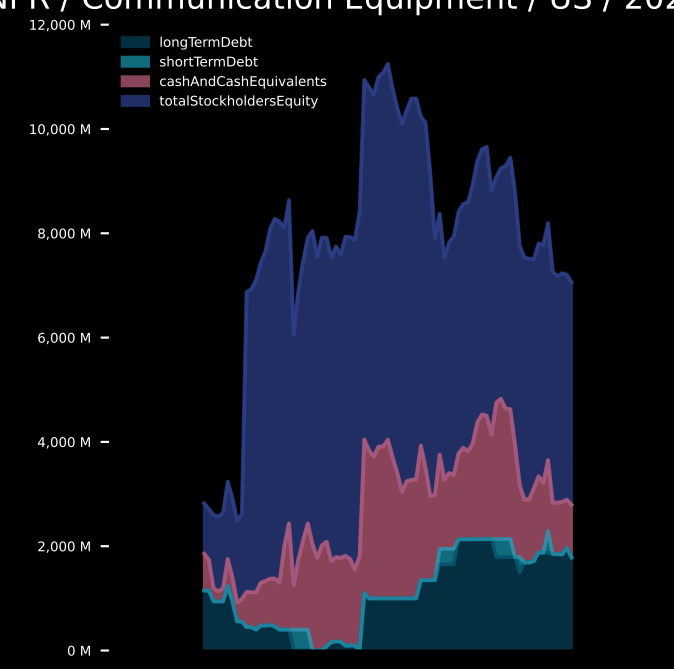
IPR / Communication Equipment / US / 2022-08-23



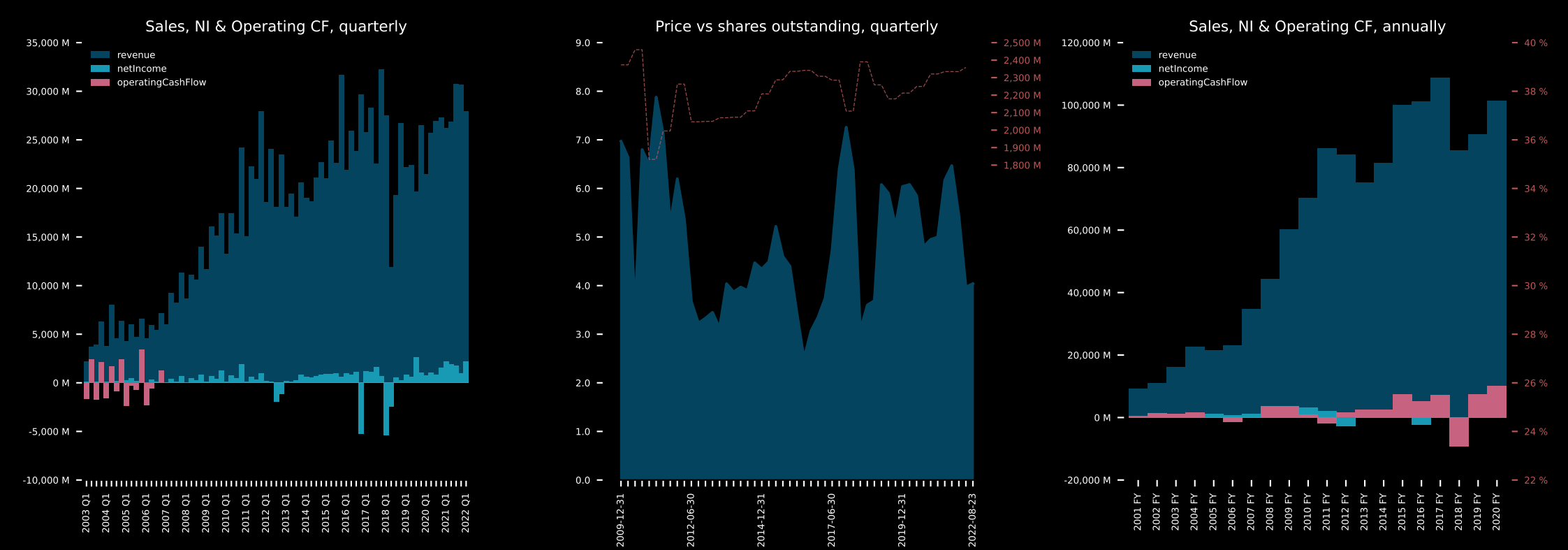
Juniper Networks, Inc. designs, develops, and sells network products and services worldwide. The company offers routing products, such as ACX series universal access routers to deploy high-bandwidth services; MX series Ethernet routers that function as a universal edge platform; PTX series packet transport routers; wide-area network SDN controllers; and session smart routers. It also provides switching products, including EX series Ethernet switches to address the access, aggregation, and core layer switching requirements of micro branch, branch office, and campus environments; QFX series of core, spine, and top-of-rack data center switches; and juniper access points, which provide Wi-Fi access and performance. In addition, the company offers security products comprising SRX series services gateways for the data center; Branch SRX family provides an integrated and next-generation firewall; virtual firewall that delivers various features of physical firewalls; and advanced malware protection, a cloud-based service and Juniper ATP. Further, it offers Junos OS, a network operating system; Contrail networking, which



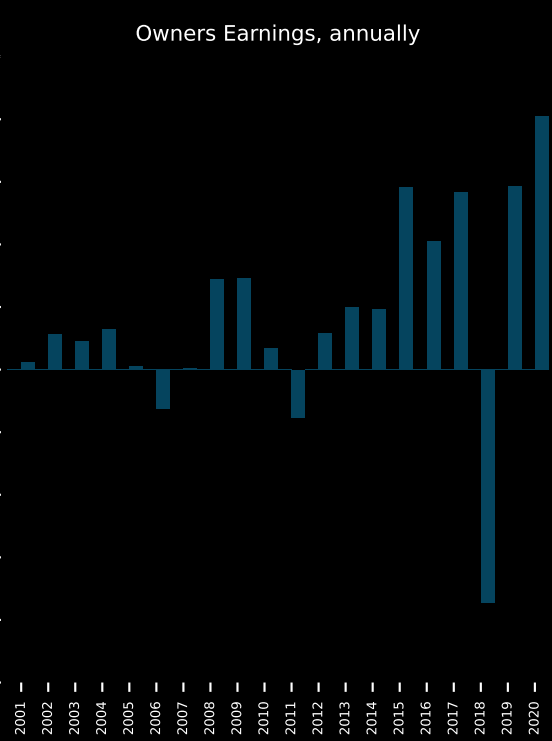
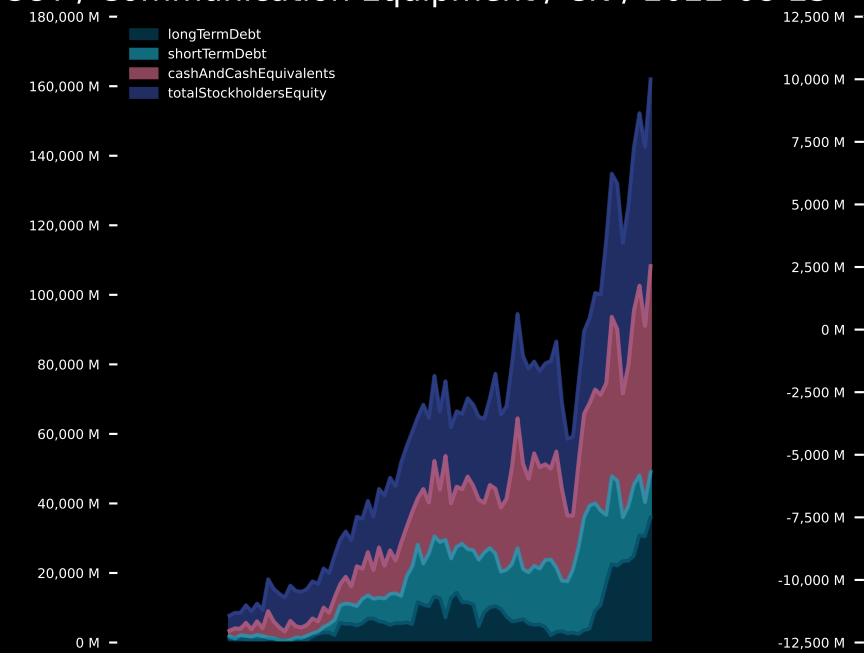
IPR / Communication Equipment / US / 2022-08-23



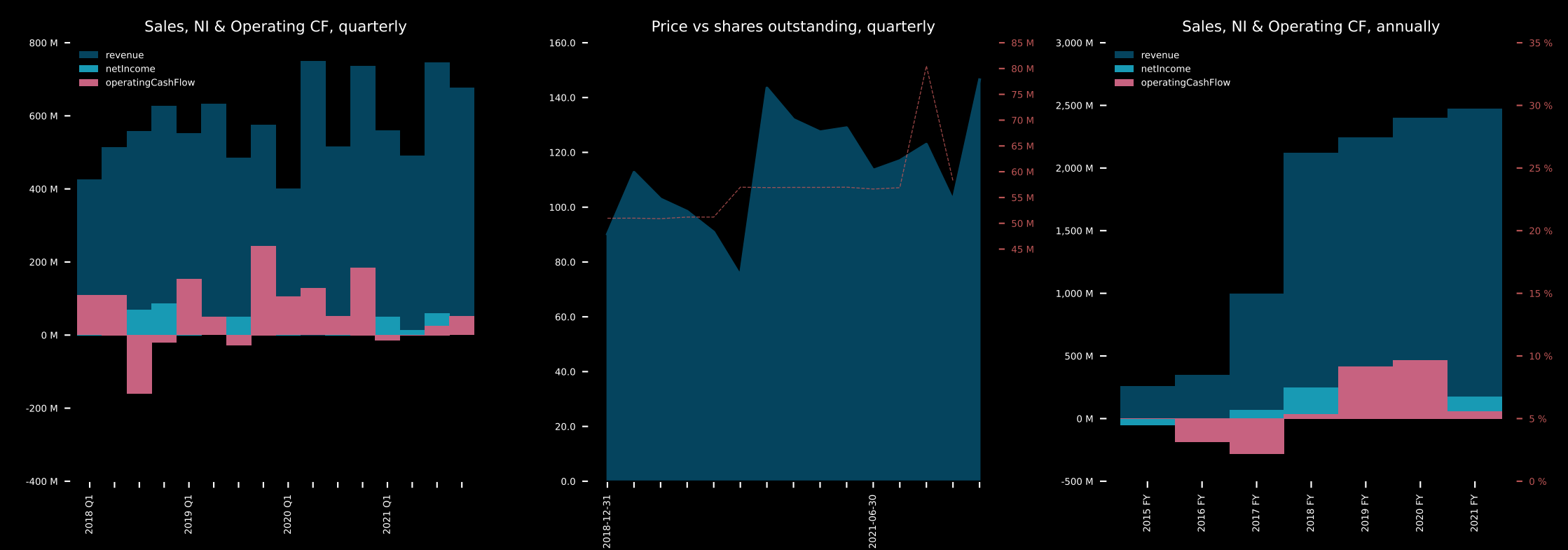
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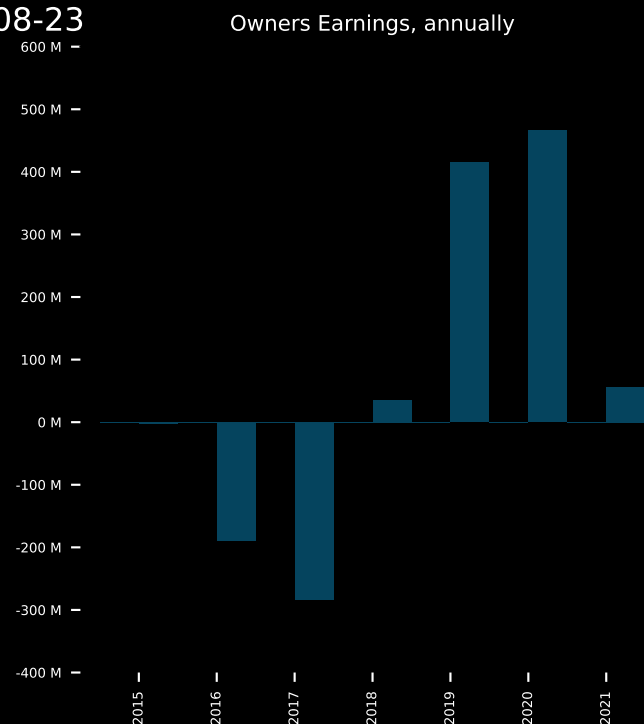
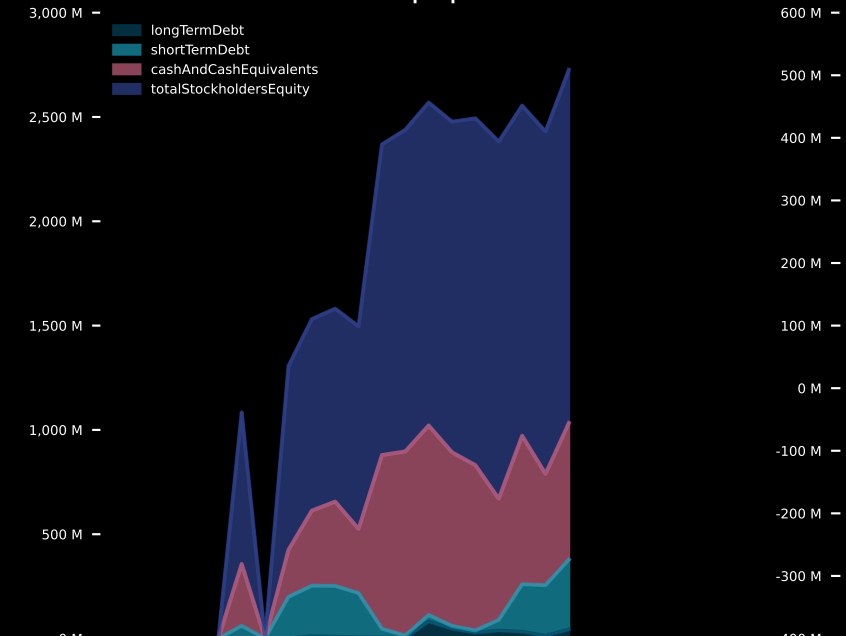
COY / Communication Equipment / CN / 2022-08-23



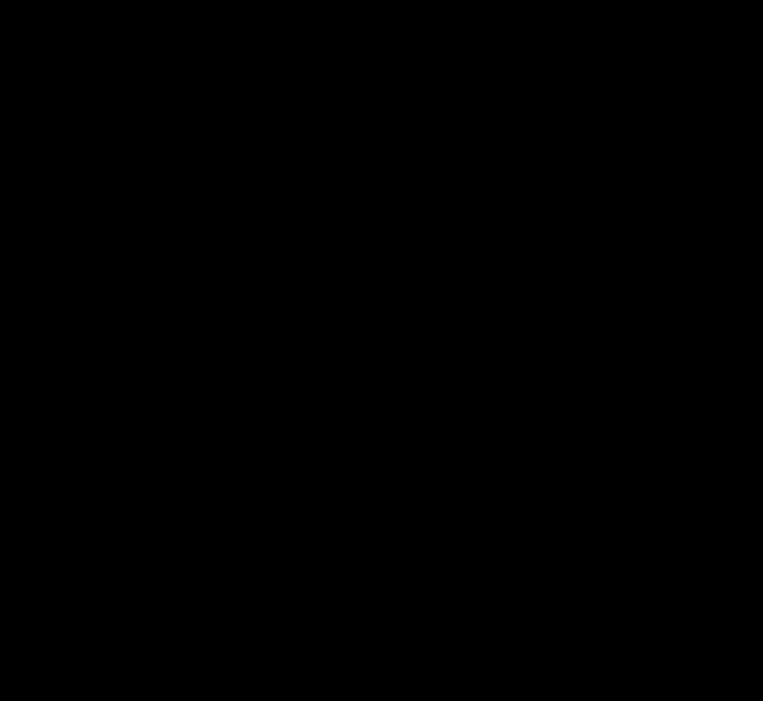
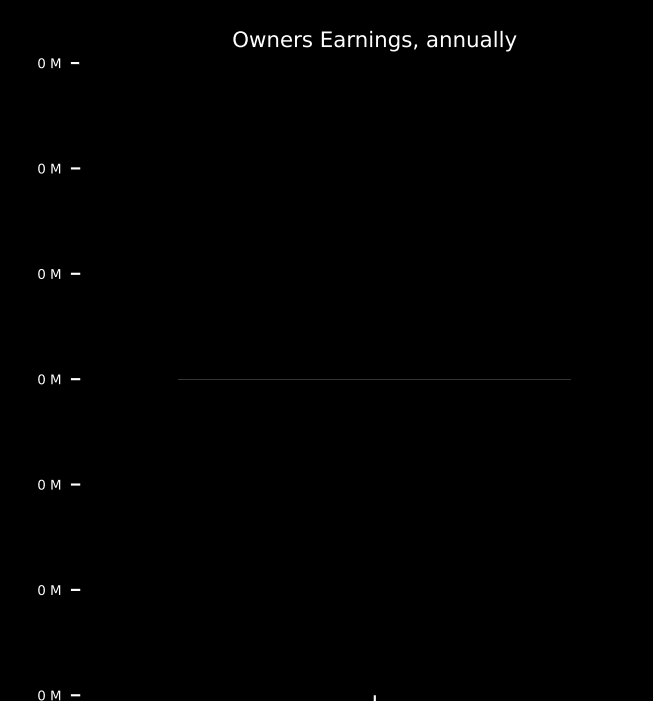
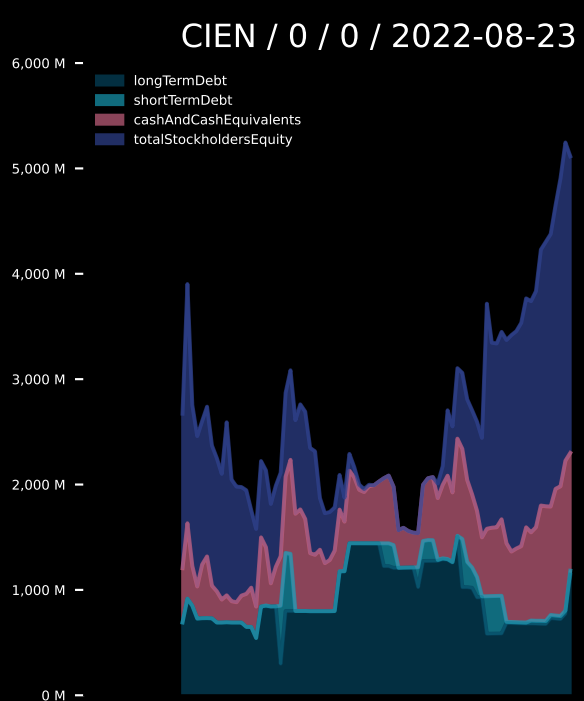
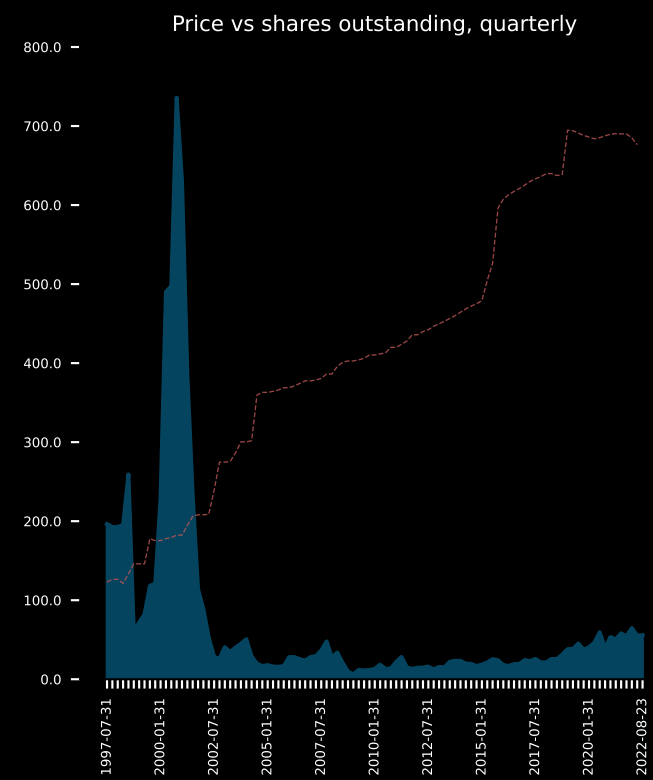
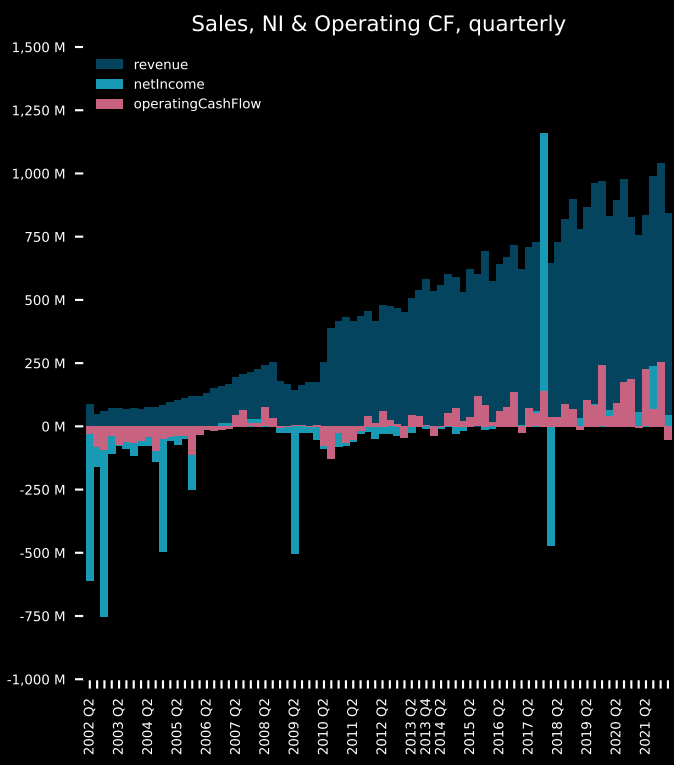
ZTE Corporation provides integrated communication information solutions in the People's Republic of China, rest of Asia, Africa, Europe, the United States, and Oceania. It operates through three segments: Carriers' Networks, Government and Corporate Business, and Consumer Business. The Carriers' Network segment provides wireless access, wireline access, bearer systems, core networks, telecommunication software systems and services, and other technologies and product solutions for meeting carries' requirements. The Consumer Business segment offers smart phones, mobile data terminals, family terminals, and fusion terminals, as well as related software application and value-added services. The Government and Corporate Business segment focuses on providing informatization solutions for the government and corporations through the application of products, such as communications networks, Internet of Things, big data, and cloud computing. The company was founded in 1985 and is headquartered in Shenzhen, the People's Republic of China.

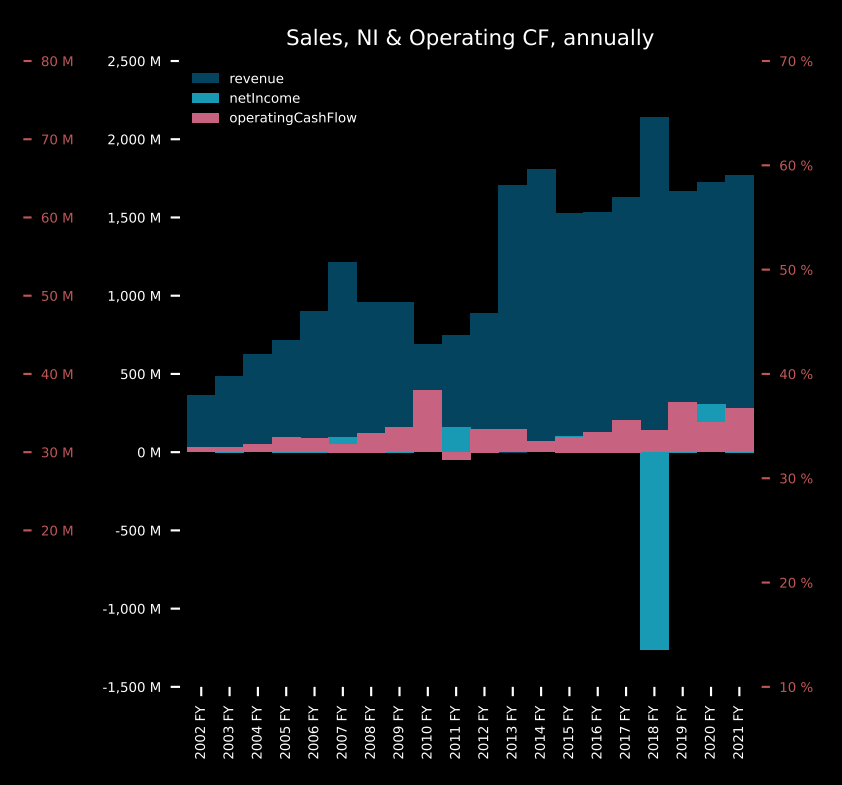
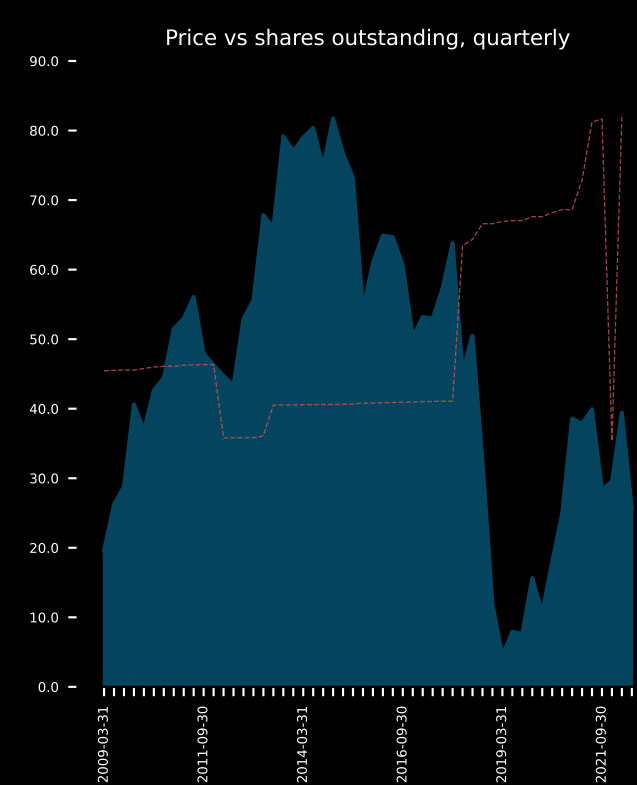


5.TW / Communication Equipment / US / 2022-08-23

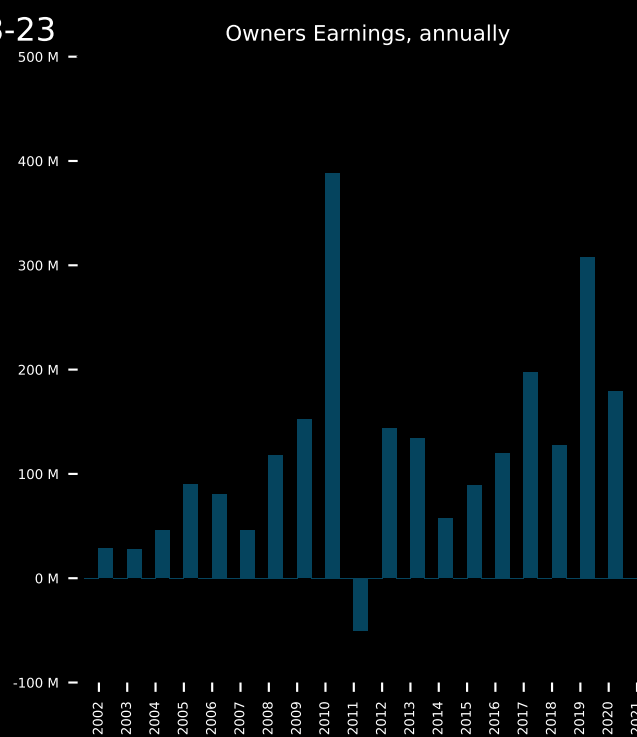
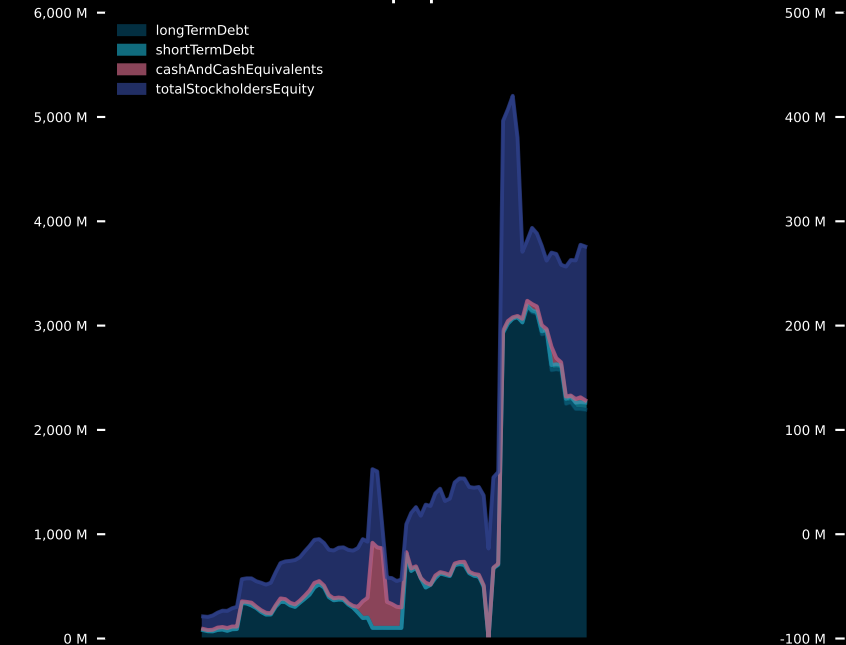


Lintes Technology Co., Ltd. designs, develops, and manufactures consumer electronics and communication connectivity products worldwide. The company offers active and passive electric cables, adaptors, travel docks, PD chargers, tether cables, docking station and wireless chargers, and dongles. It serves original equipment manufacturers and original design manufacturers. The company was founded in 2011 and is based in New Taipei City, Taiwan.





AXR / Communication Equipment / US / 2022-08-23

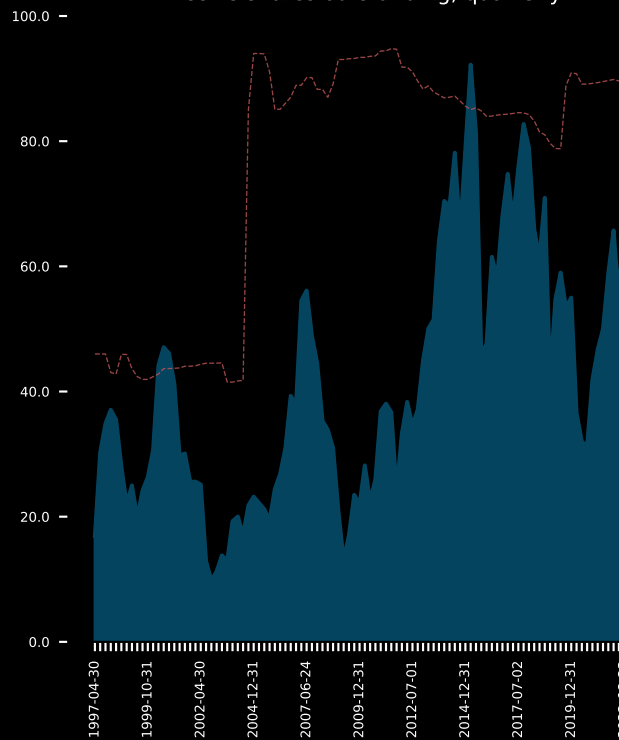


Maxar Technologies Inc. provides earth intelligence and space infrastructure solutions in the United States, Asia, South America, Europe, the Middle East, Australia, Canada, and internationally. It operates through two segments, Earth Intelligence and Space Infrastructure. The Earth Intelligence segment offers earth imagery and other geospatial data sourced from its advanced satellite constellation and third-party providers to public sector and enterprise customers, as well as a provides advanced geospatial information, applications, and analytic services for national security and commercial solutions. Its solutions include satellite access, geospatial foundation, precision mapping, on-demand intelligence, and geospatial services. It serves U.S. and international government agencies, and enterprise customer verticals. The Space Infrastructure segment provides space-based infrastructure, robotics, sub-systems, and information solutions, including communication and imaging satellites and payloads; platforms for space exploration and hosting instruments for earth science; space subsystems for power, propulsion, and

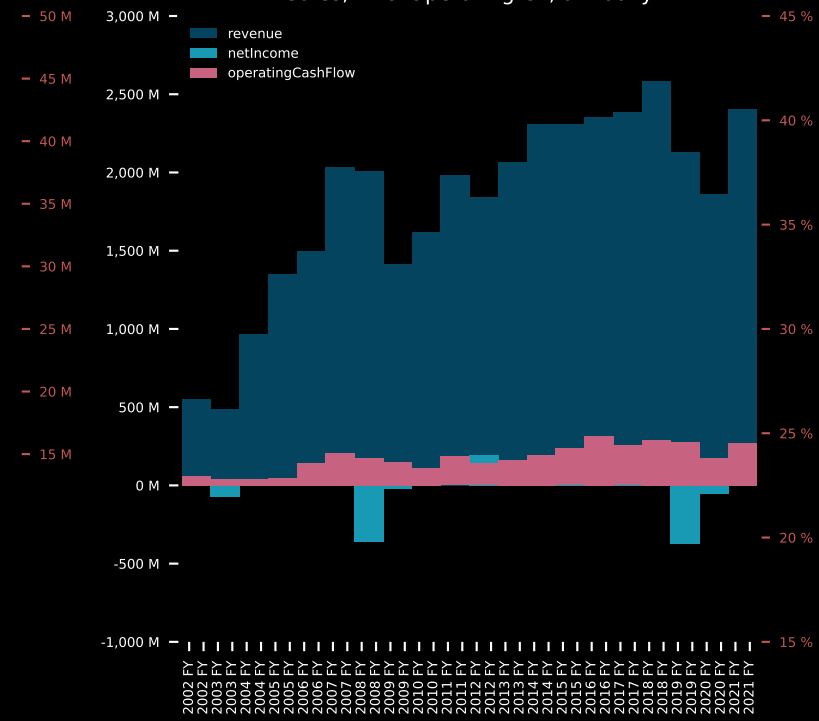
Sales, NI & Operating CF, quarterly



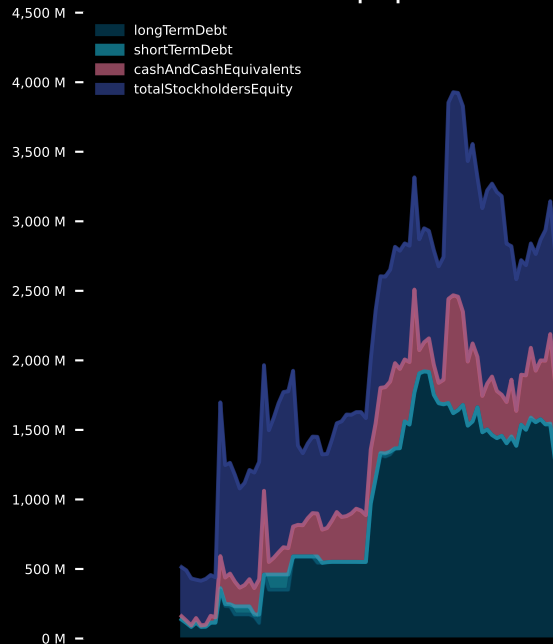
Price vs shares outstanding, quarterly



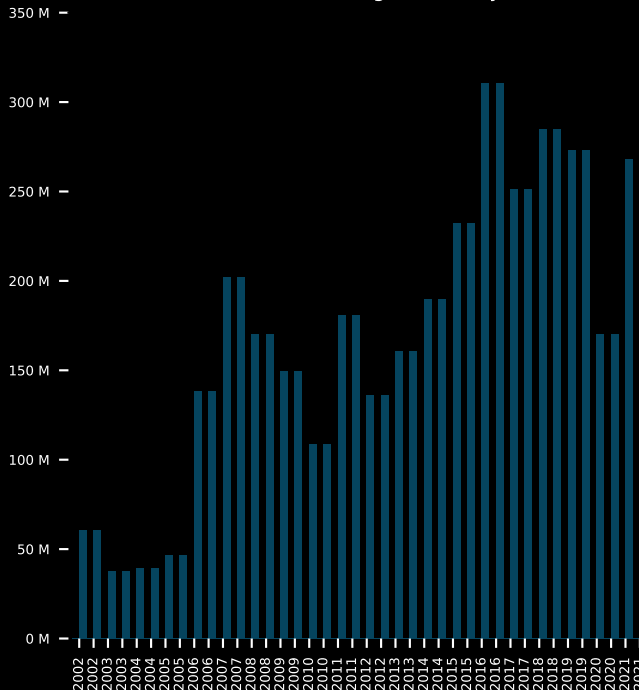
Sales, NI & Operating CF, annually



DC / Communication Equipment / US / 2022-08-23



Owners Earnings, annually

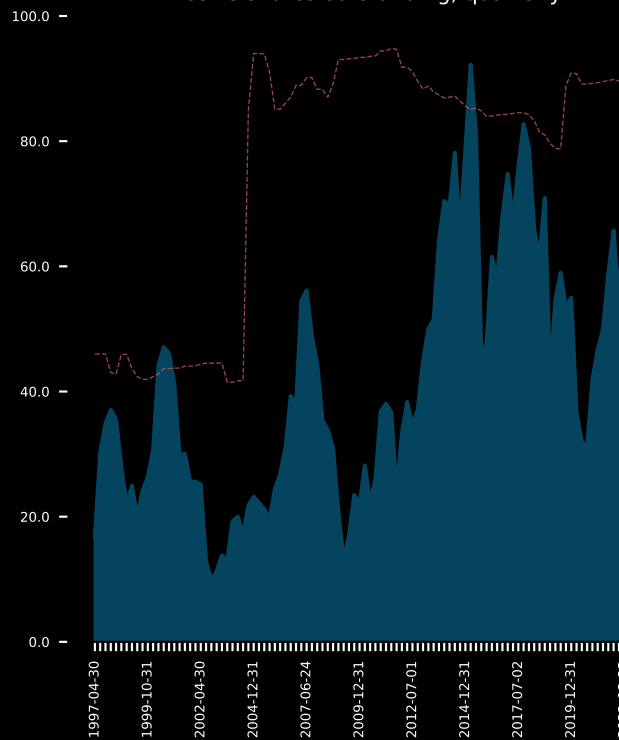


Belden Inc. provides portfolio of signal transmission solutions in the Americas, Europe, the Middle East, Africa, and the Asia-Pacific. It operates in two segments, Enterprise Solutions and Industrial Solutions. The Enterprise Solutions segment offers copper cable and connectivity solutions, fiber cable and connectivity solutions, interconnect panels, racks and enclosures, and signal extension and matrix switching systems for use in applications, such as local area networks, data centers, access control, 5G, fiber, and home and building automation. It also provides power, cooling, and airflow management products for mission-critical data center operations; and end-to-end copper and fiber network systems. This segment serves commercial real estate, hospitality, healthcare, education, financial, government, and broadband and wireless service providers, as well as end-markets, including sport venues, stadiums, data centers, military installations, and academia. The Industrial Solutions segment offers infrastructure components and on-machine connectivity systems; and industrial Ethernet switches, network management software, routers, firewalls, and network management software (NMS).

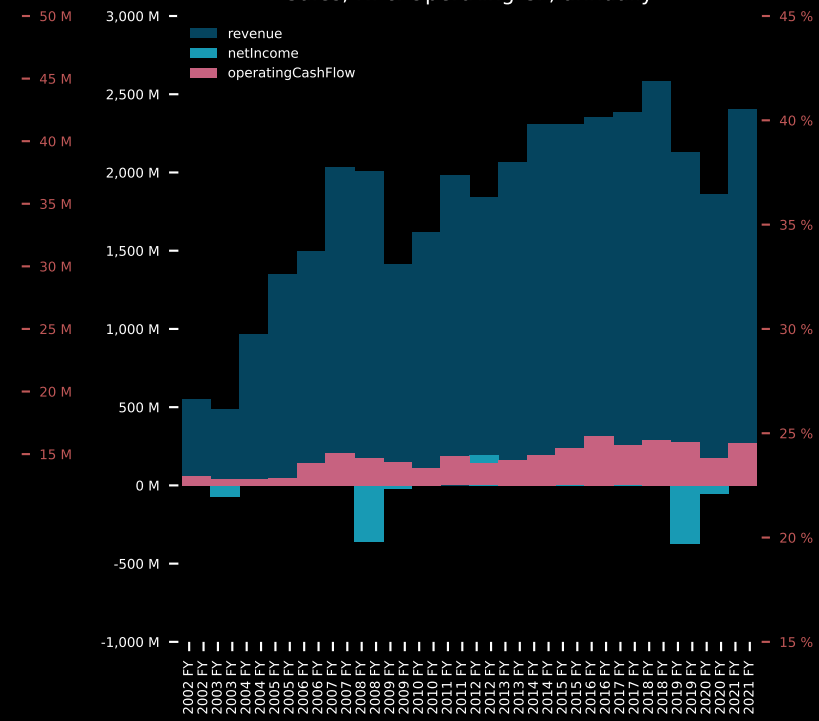
Sales, NI & Operating CF, quarterly



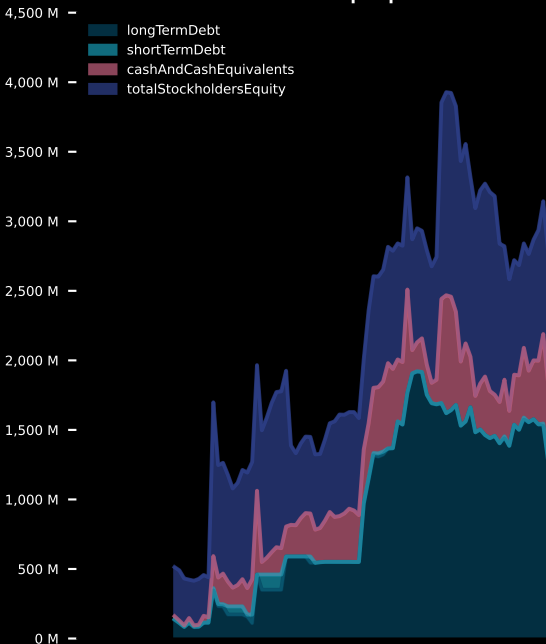
Price vs shares outstanding, quarterly



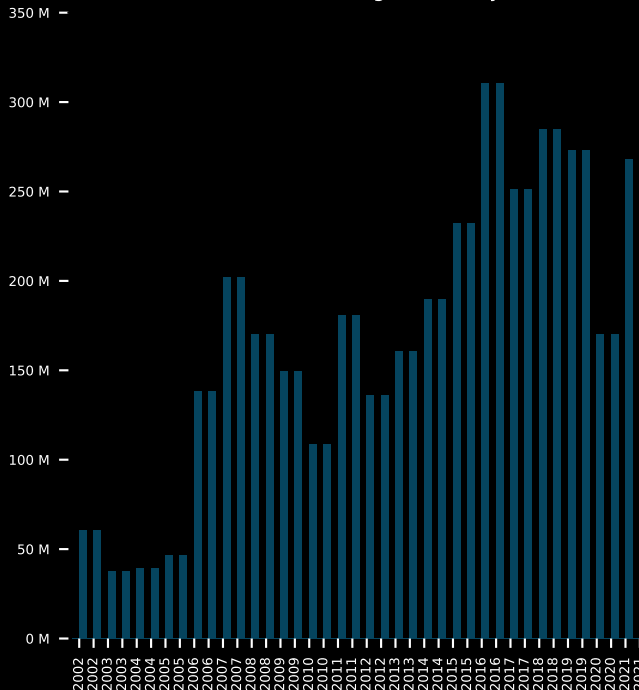
Sales, NI & Operating CF, annually



DC / Communication Equipment / US / 2022-08-23

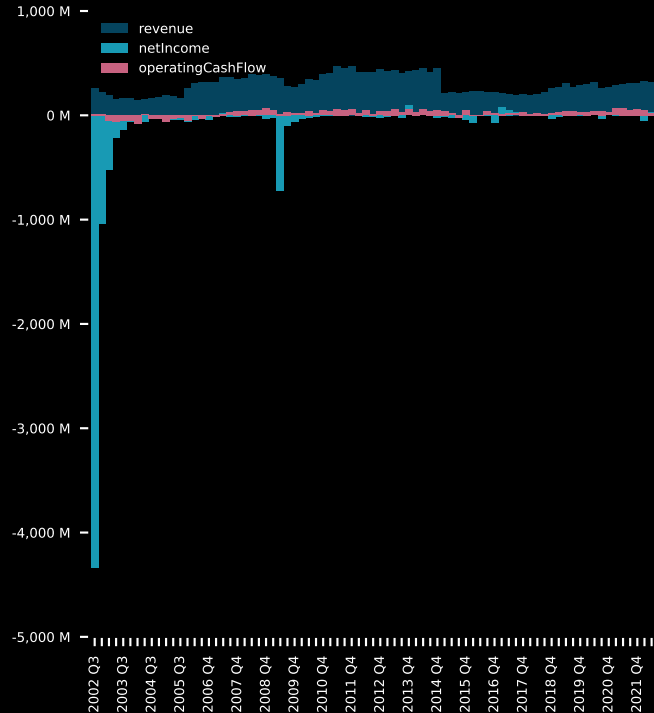


Owners Earnings, annually

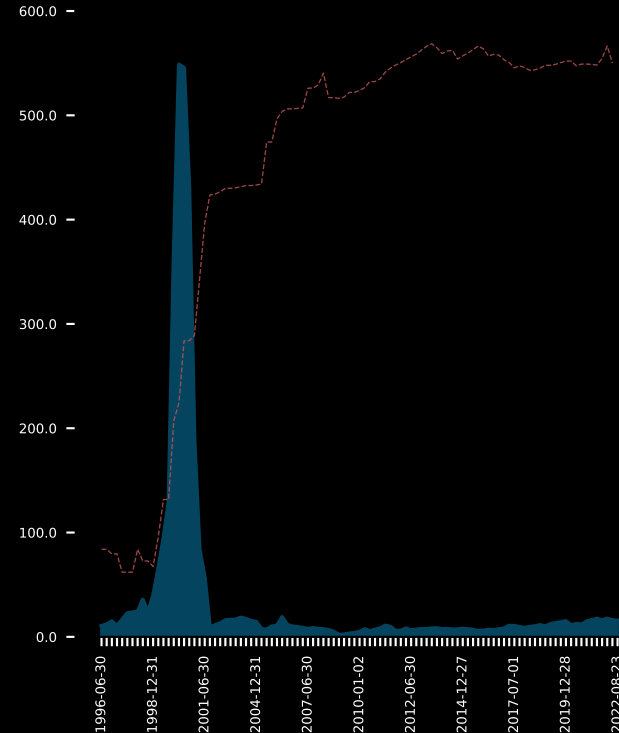


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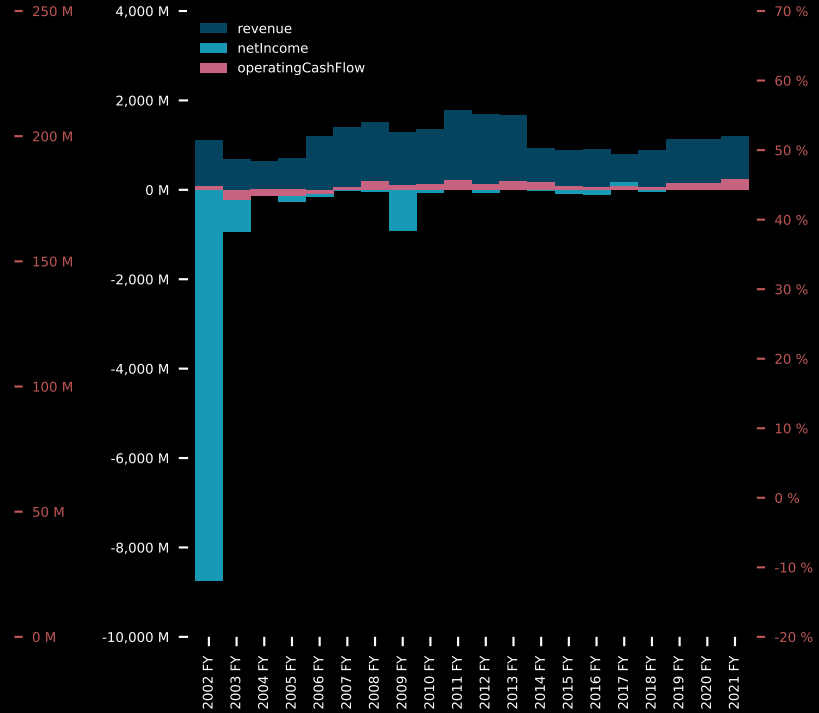
Sales, NI & Operating CF, quarterly



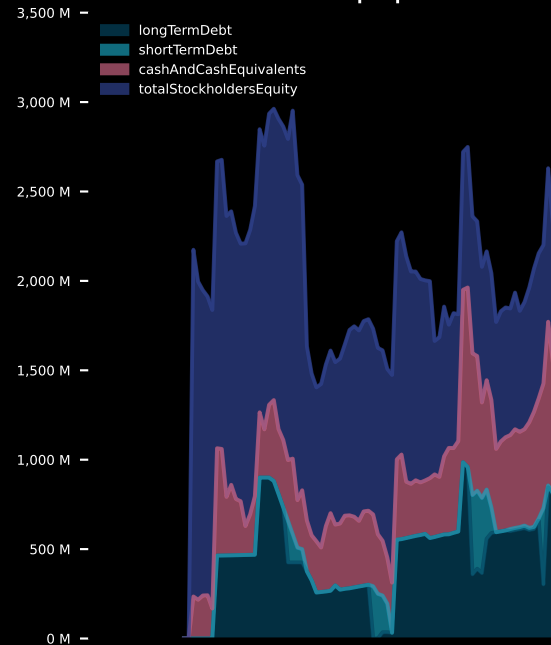
Price vs shares outstanding, quarterly



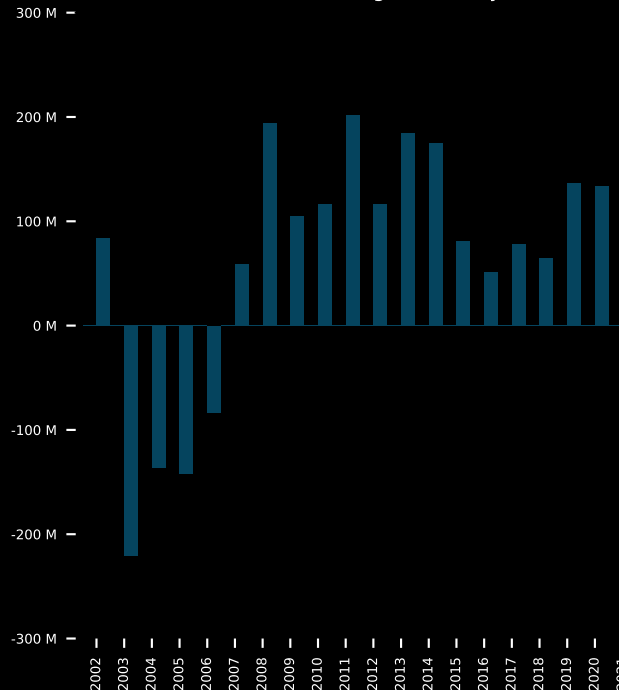
Sales, NI & Operating CF, annually



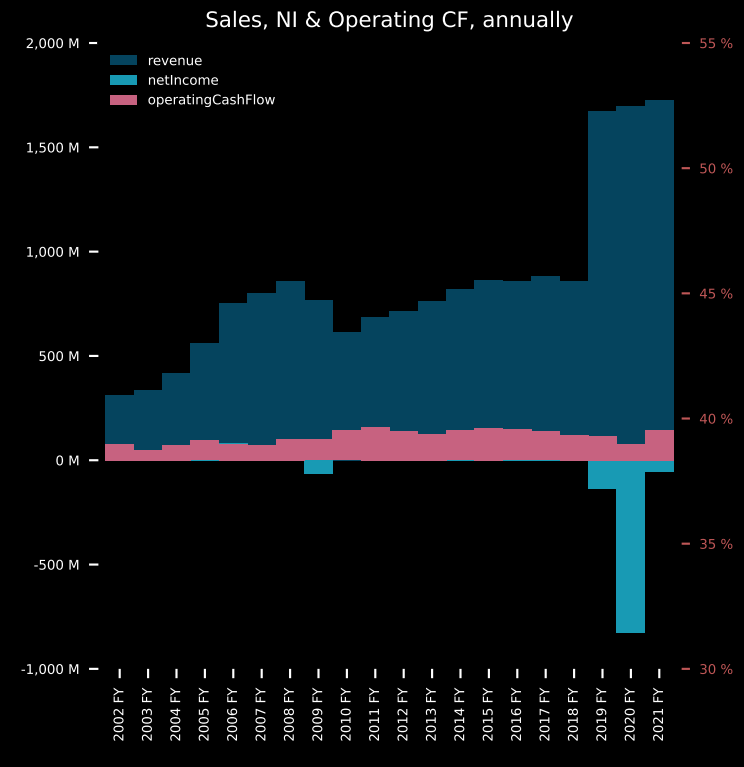
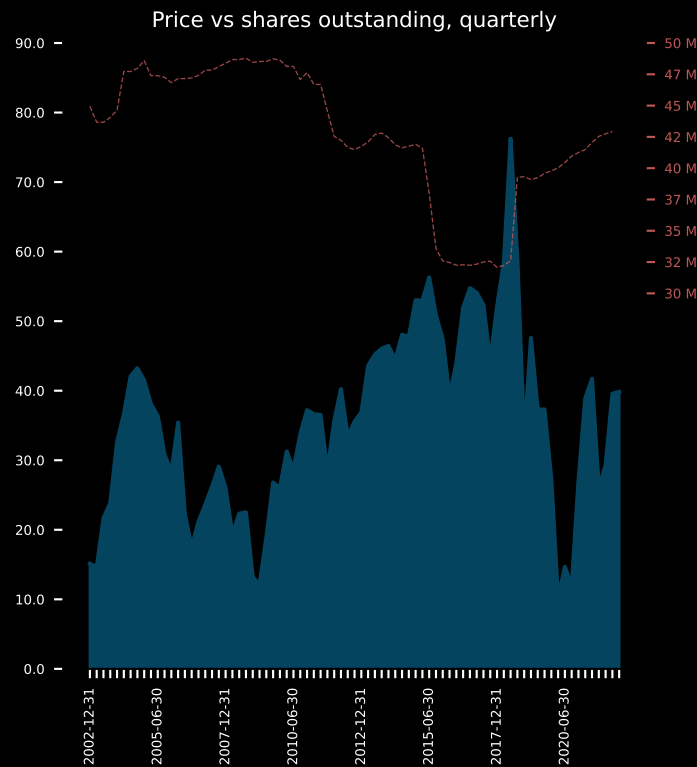
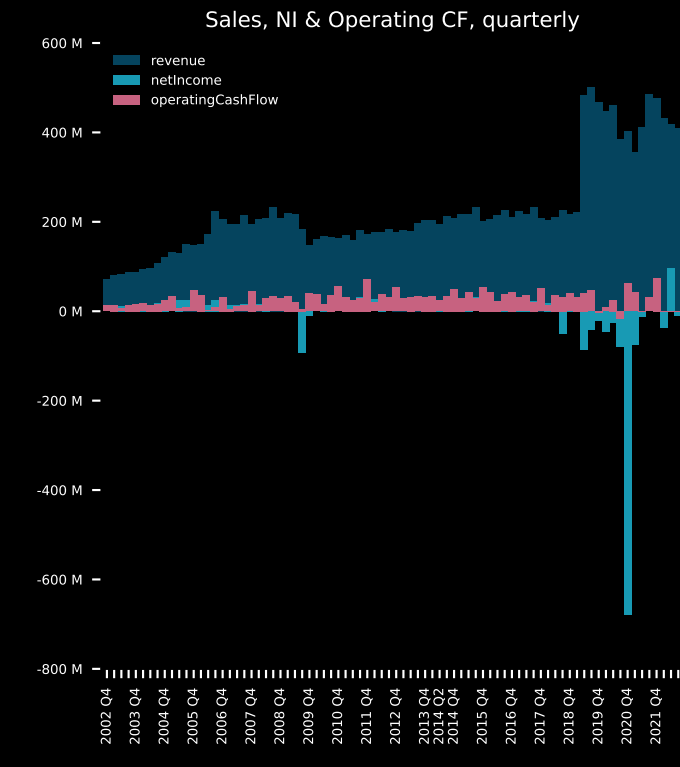
AV / Communication Equipment / US / 2022-08-23



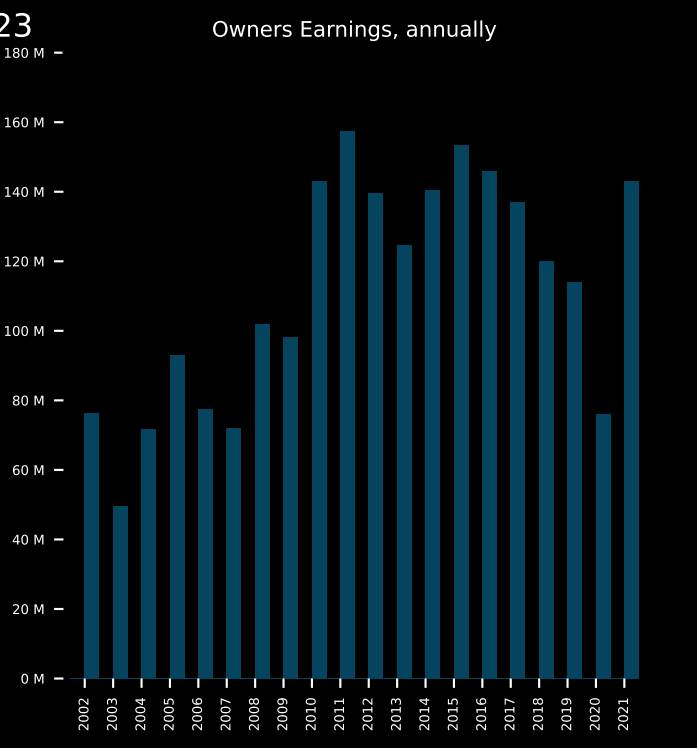
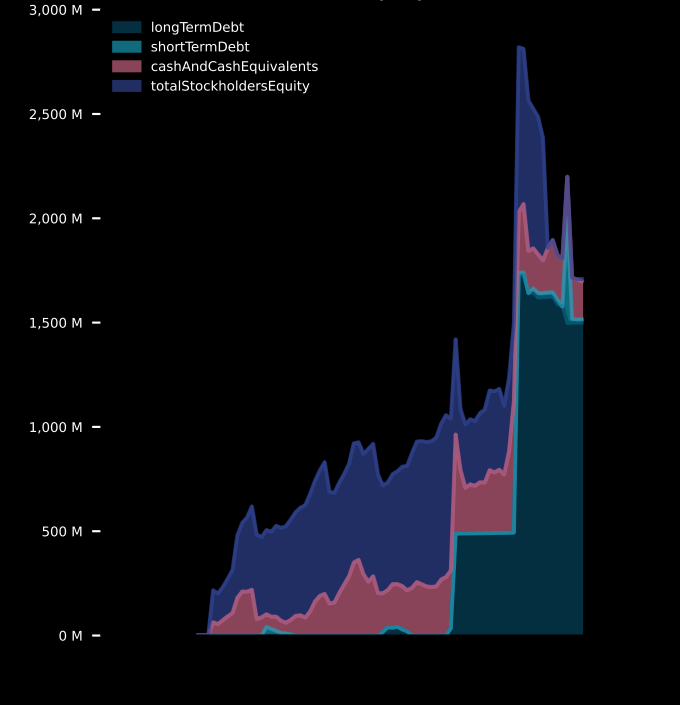
Owners Earnings, annually



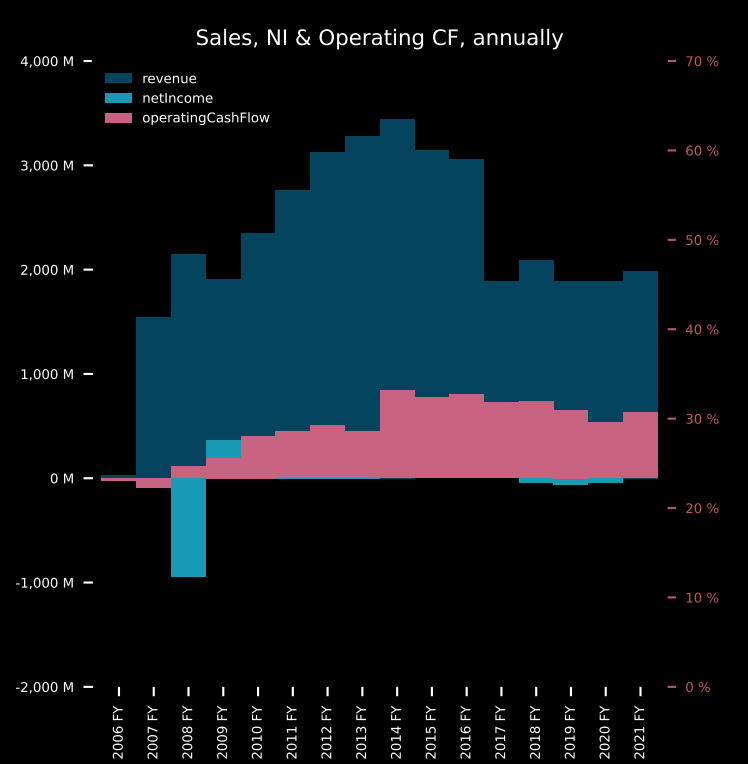
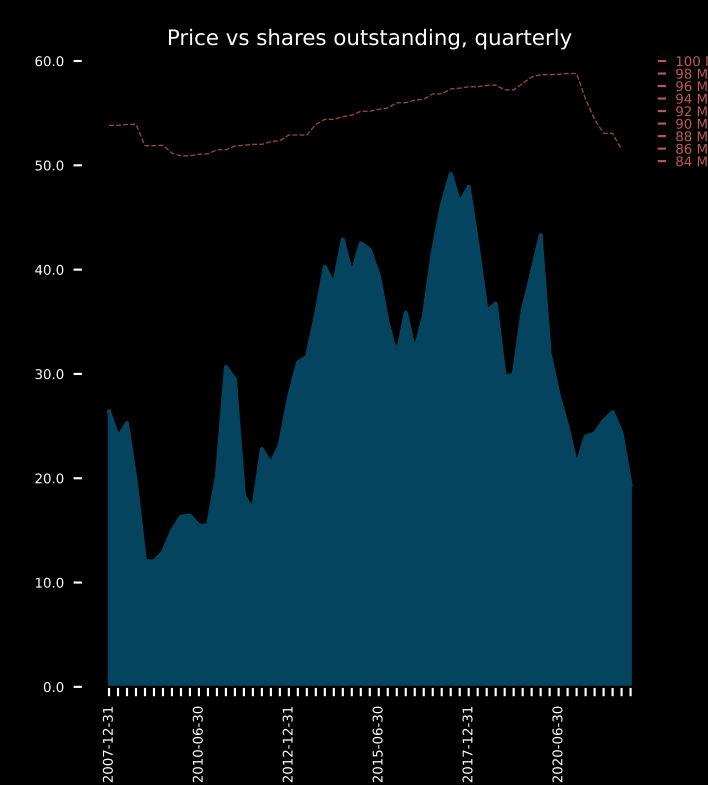
Viavi Solutions Inc. provides network test, monitoring, and assurance solutions to communications service providers, enterprises, network equipment manufacturers, government, and avionics customers worldwide. The company operates through three segments: Network Enablement (NE), Service Enablement (SE), and Optical Security and Performance Products (OSP) segments. The NE segment offers testing solutions that access the network to perform build-out and maintenance tasks. This segment provides solutions that include instruments, software, and services to design, build, activate, certify, troubleshoot, and optimize networks; and instrumentation for communication and safety. It also offers support and professional services, such as repair, calibration, software support, and technical assistance for the products; and system integration projects, including project management, installation, and implementation, as well as product and technology training, and consulting services. The SE segment provides embedded systems and enterprise performance management solutions for communication service providers. The OSP segment provides optical security and performance products to defense and government customers.



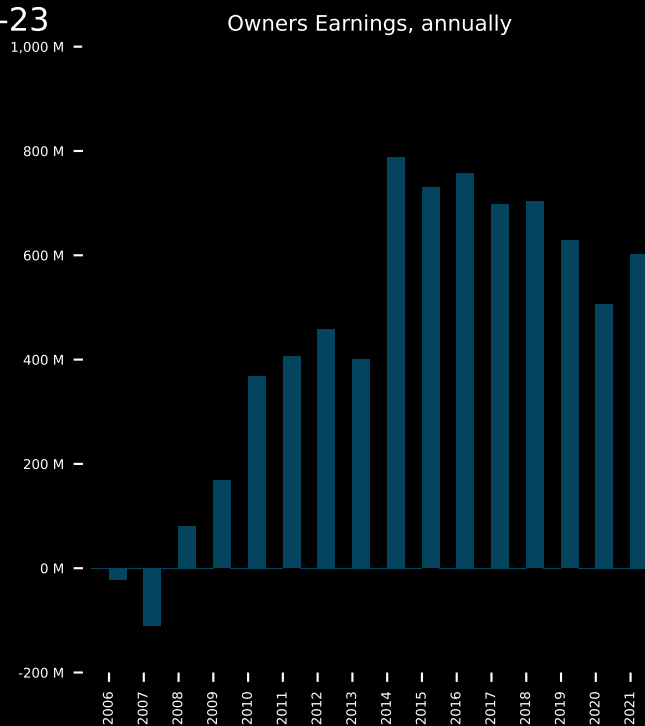
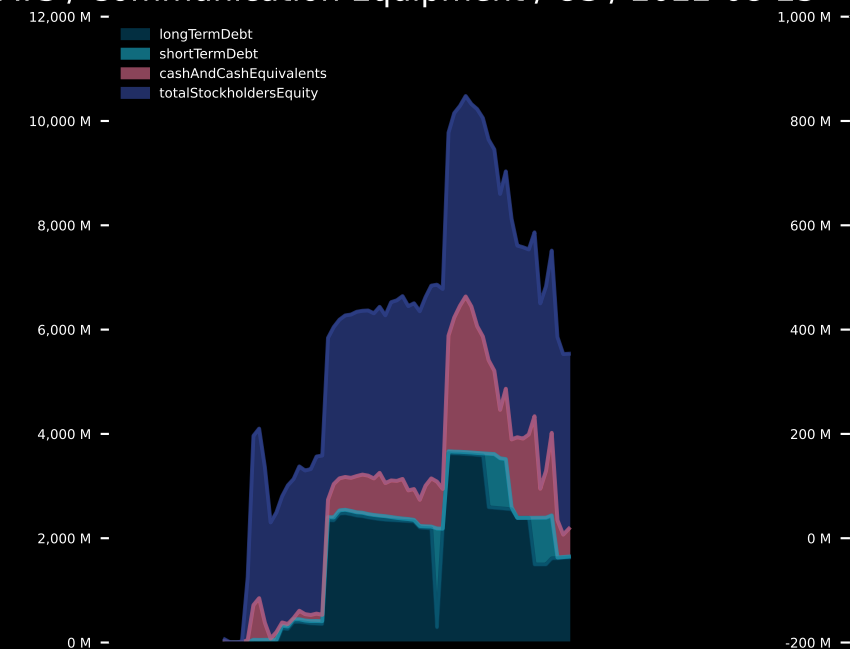
OLY / Communication Equipment / US / 2022-08-23



Plantronics, Inc. designs, manufactures, markets, and sells integrated communications and collaborations solutions for corporate customers, small businesses, and individuals in the United States, Europe, the Middle East, Africa, the Asia Pacific, and rest of the Americas. Its principal product categories include headsets, which comprises wired and wireless communication headsets; voice that includes open session initiation protocol and native ecosystem desktop phones, and conference room phones; video conferencing solutions and peripherals, including cameras, speakers, and microphones designed to work with a range of unified communication and collaboration, unified communication as a service, and video as a service environments, including RealPresence collaboration solutions of infrastructure to endpoints that allows people to connect and collaborate; and content sharing solutions. The company also offers services that include video interoperability, and hardware and support for our solutions and hardware devices, as well as professional, hosted, and managed services; and cloud management and analytics

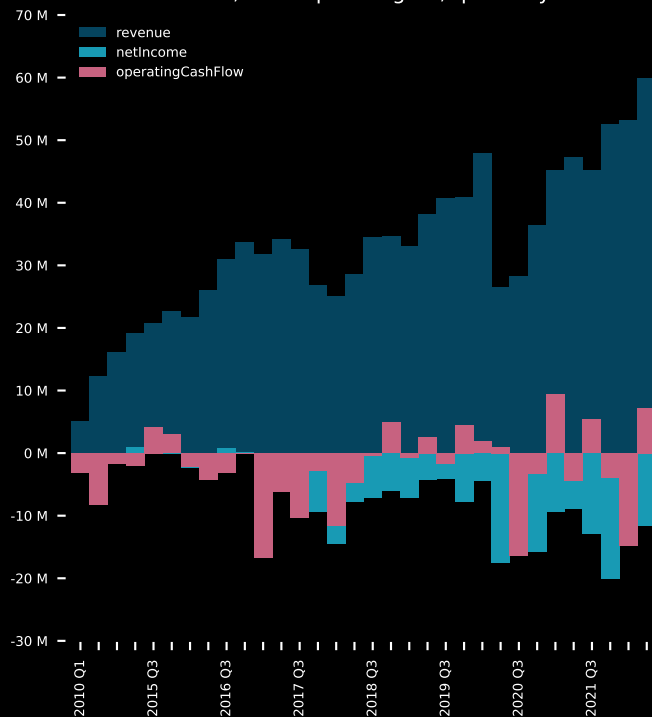


ATS / Communication Equipment / US / 2022-08-23

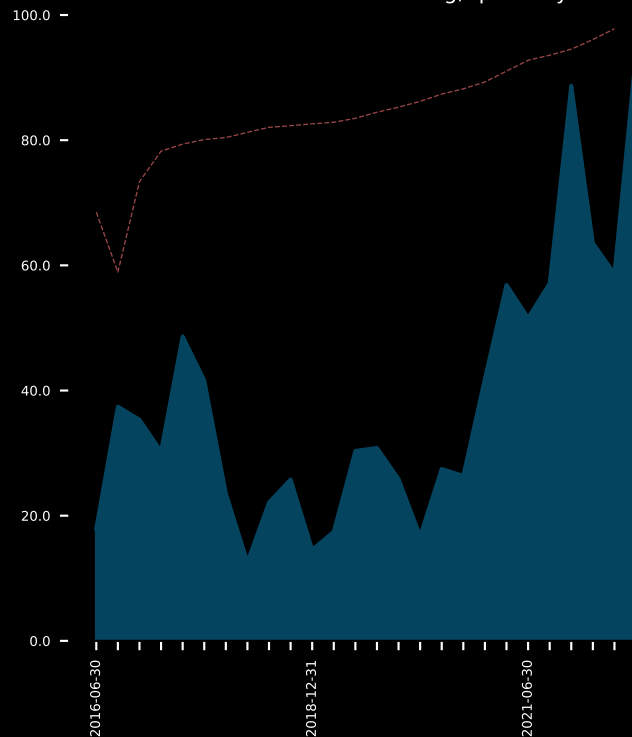


EchoStar Corporation, together with its subsidiaries, provides networking technologies and services worldwide. The company operates in two segments, Hughes and EchoStar Satellite Services (ESS). The Hughes segment offers broadband network technologies, managed services, equipment, hardware, satellite services, and communications solutions to government and enterprise customers. The segment also designs, provides, and installs gateway and terminal equipment to customers for other satellite systems. In addition, it designs, develops, constructs, and provides telecommunication networks comprising satellite ground segment systems and terminals to mobile system operators and enterprise customers. Further, this segment designs, provides, and installs gateway and terminal equipment to customers for other satellite systems, as well as offers satellite ground segment systems and terminals for other satellite systems, including mobile system operators. The ESS segment provides satellite services using its owned and leased in-orbit satellites and related licenses to offer satellite services on a full-time and/or

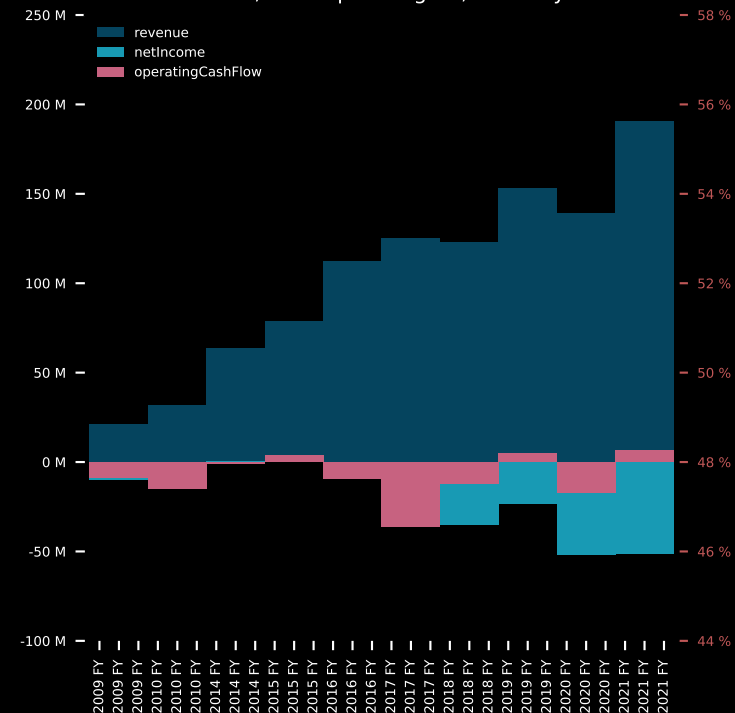
Sales, NI & Operating CF, quarterly



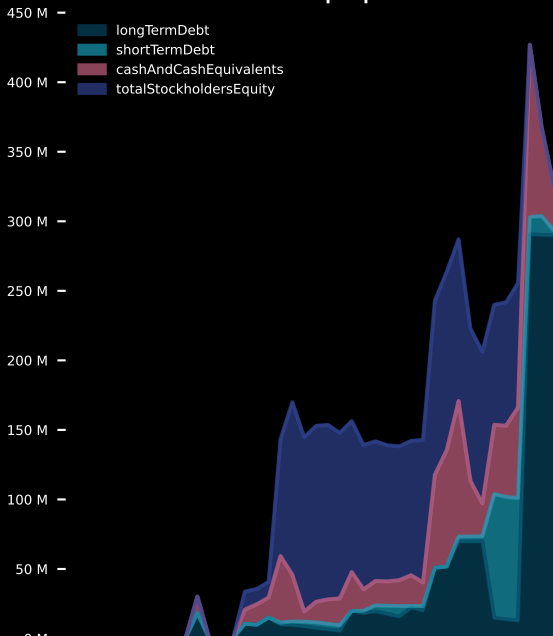
Price vs shares outstanding, quarterly



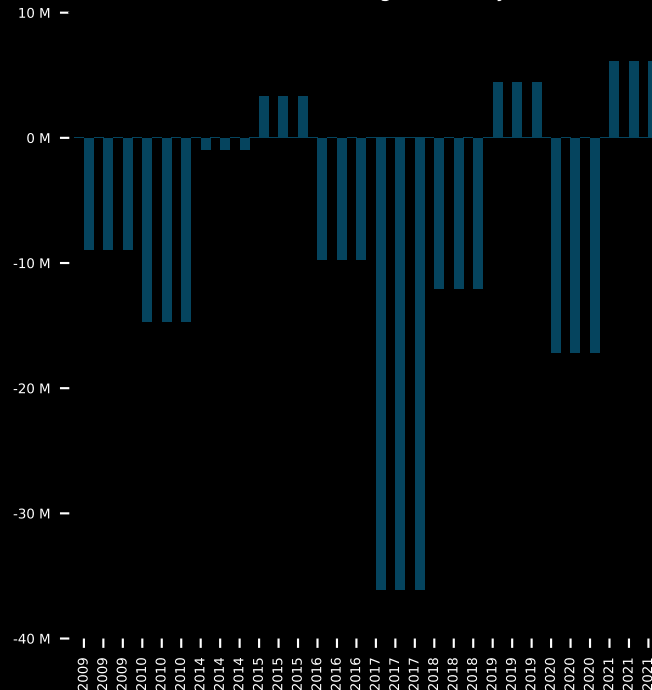
Sales, NI & Operating CF, annually



PI / Communication Equipment / US / 2022-08-23

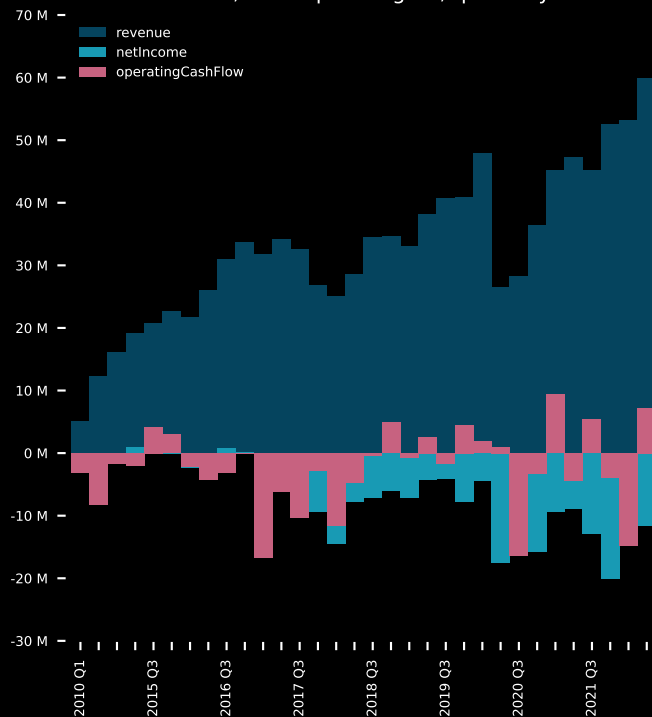


Owners Earnings, annually

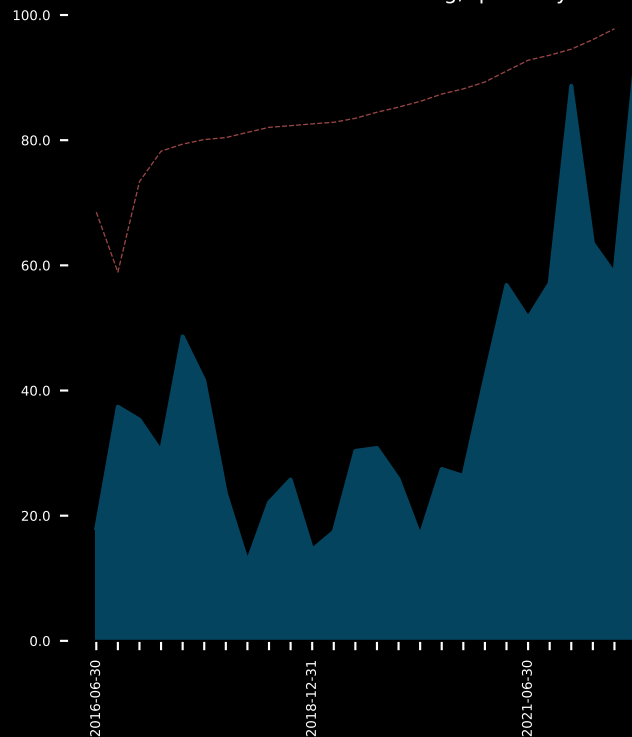


Impinj, Inc. operates a cloud connectivity platform in the Americas, the Asia Pacific, Europe, the Middle East, and Africa. Its platform, which comprises multiple product families, wirelessly connects individual items and delivers data about the connected items to business and consumer applications. The company's platform comprises endpoint ICs, a miniature radios-on-a-chip that attaches to a host item and includes a number to identify the item. Its platform also consists of systems products that comprise reader ICs, readers, and gateways to wirelessly provide power to and communicate bidirectionally with endpoint ICs on host items, as well as to read, write, authenticate, and engage the endpoint ICs on those items; and software and algorithms that enables its partners to deliver use cases, such as retail self-checkout and loss prevention, and warehouse pallet and carton tracking to end-users. The company primarily serves retail, supply chain and logistics, aviation, automotive, healthcare, industrial and manufacturing, sports, food, datacenter, travel, banking, and linen and uniform tracking sectors through distributors, system integrators, and direct sales.

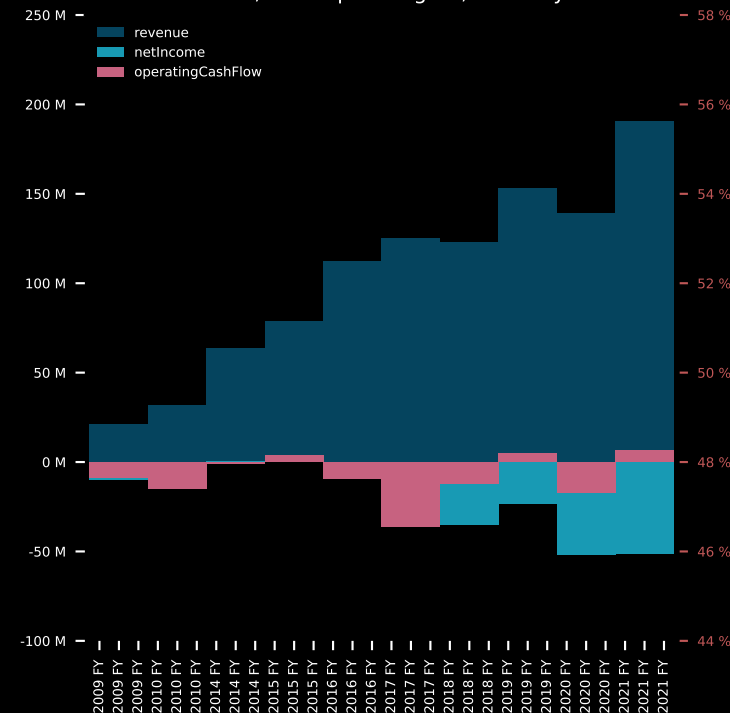
Sales, NI & Operating CF, quarterly



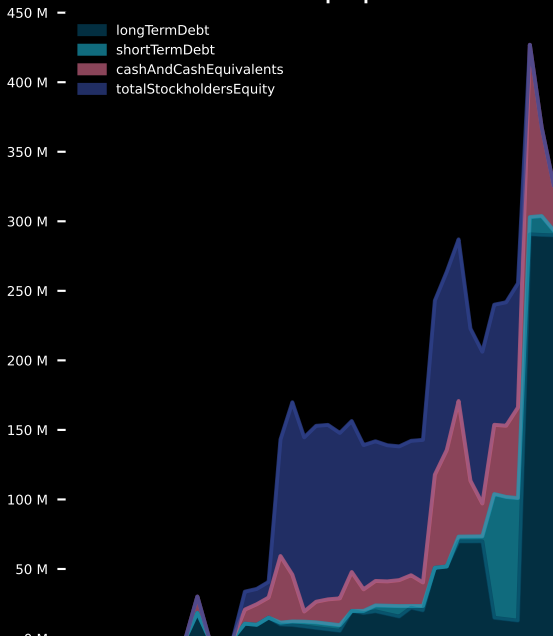
Price vs shares outstanding, quarterly



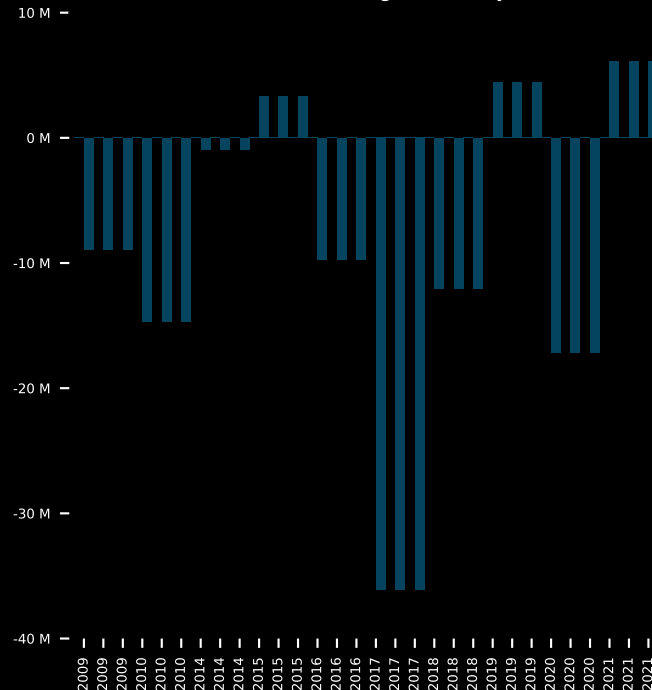
Sales, NI & Operating CF, annually



PI / Communication Equipment / US / 2022-08-23

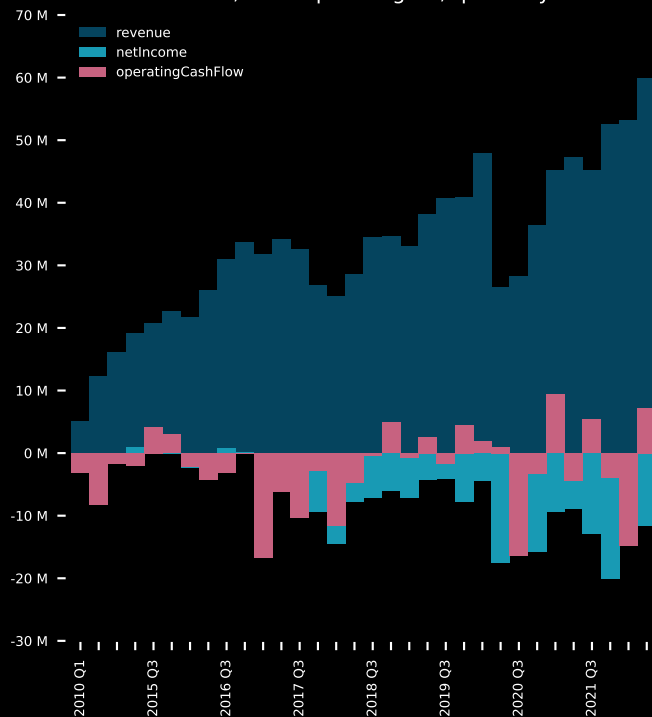


Owners Earnings, annually

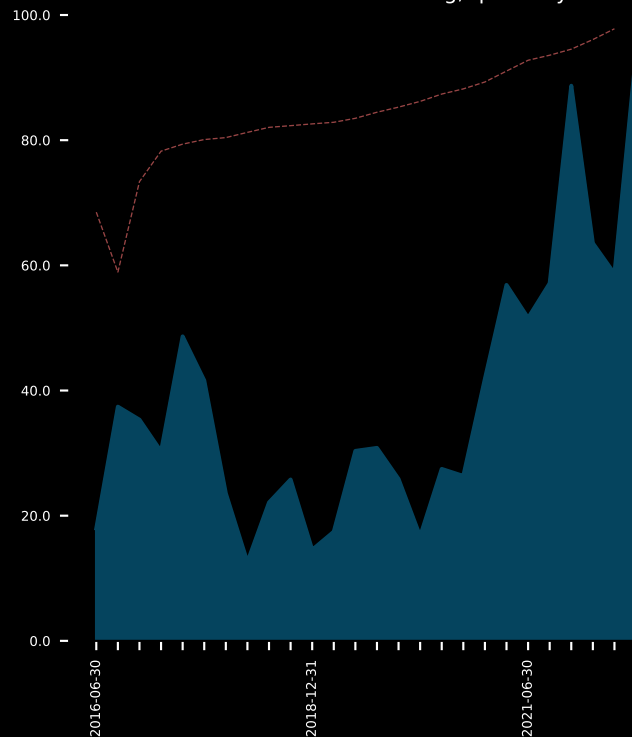


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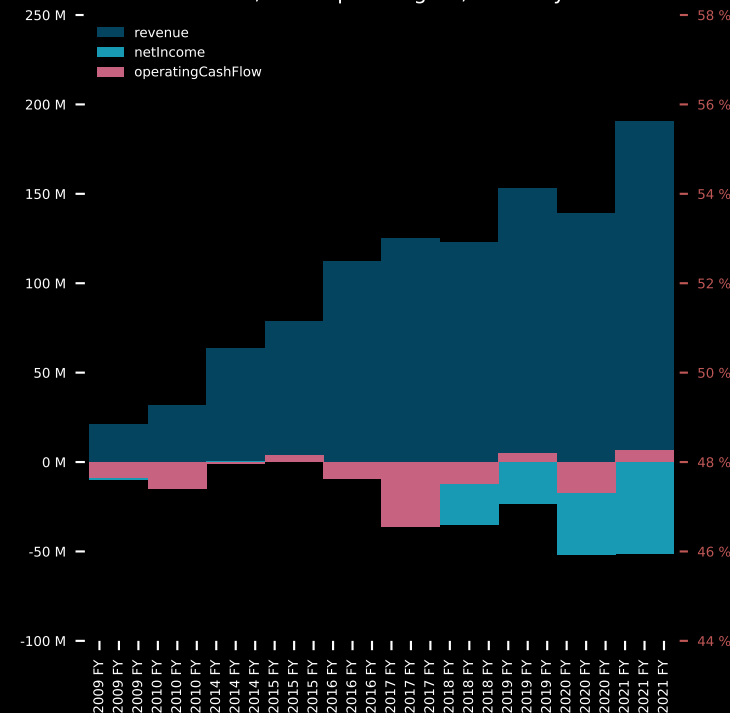
Sales, NI & Operating CF, quarterly



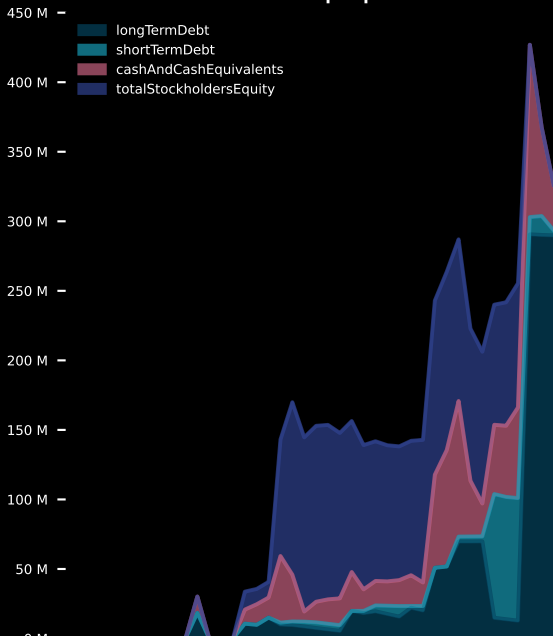
Price vs shares outstanding, quarterly



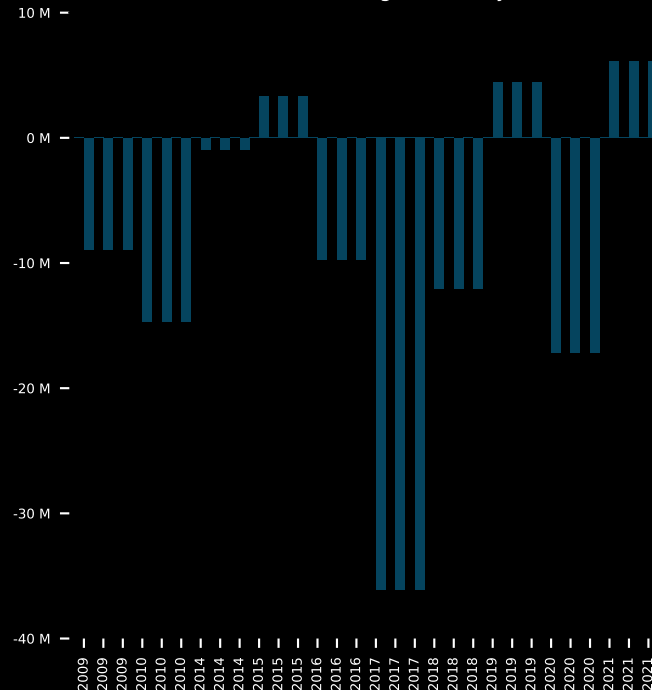
Sales, NI & Operating CF, annually



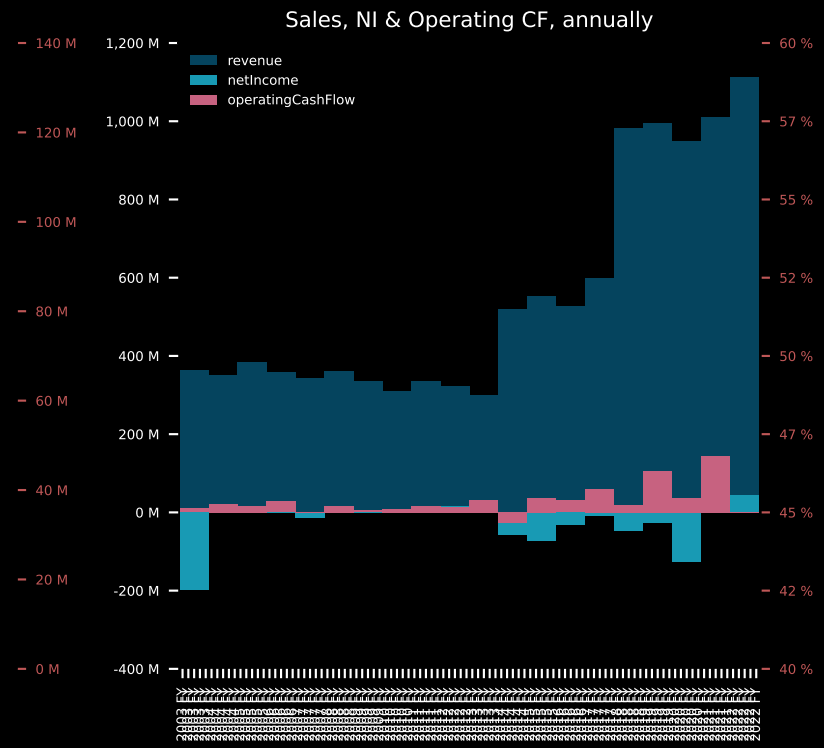
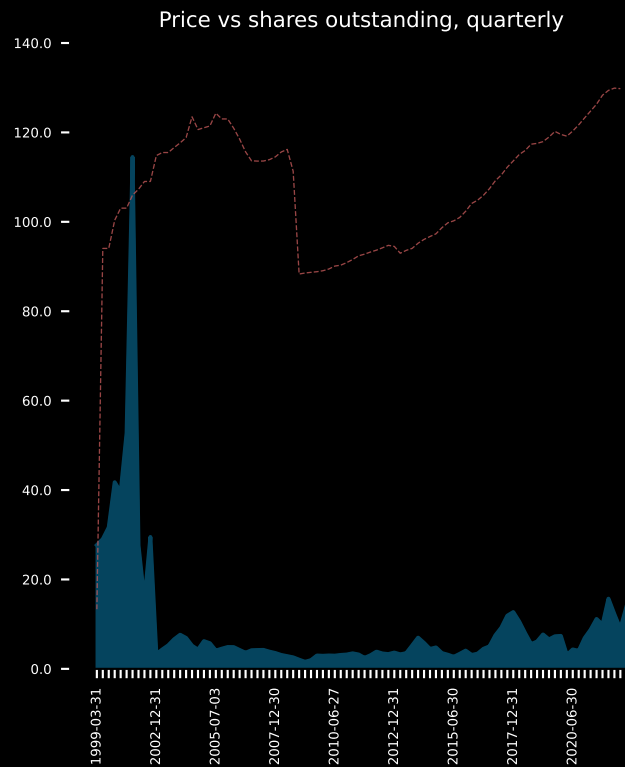
PI / Communication Equipment / US / 2022-08-23



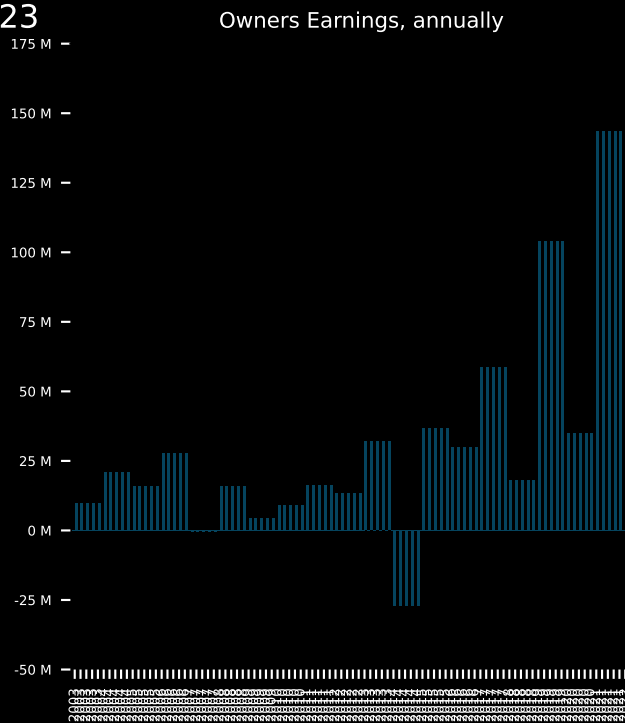
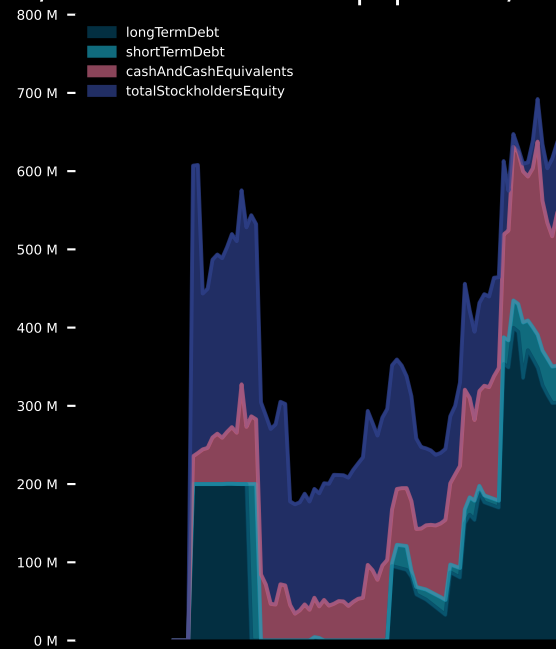
Owners Earnings, annually



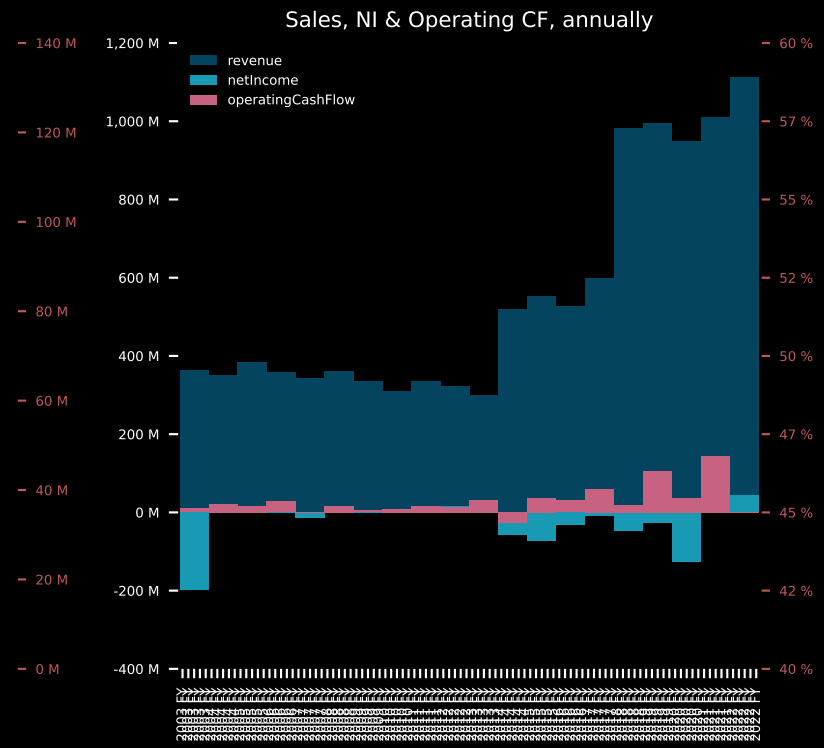
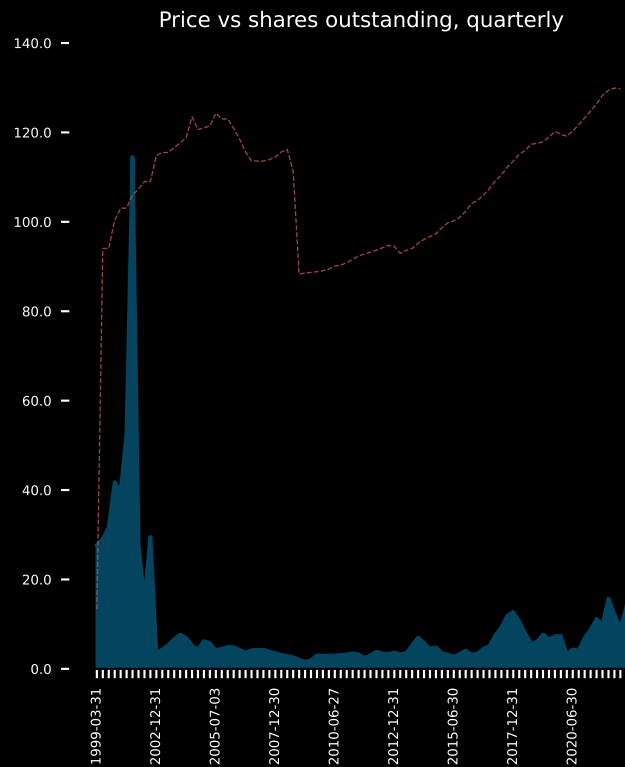
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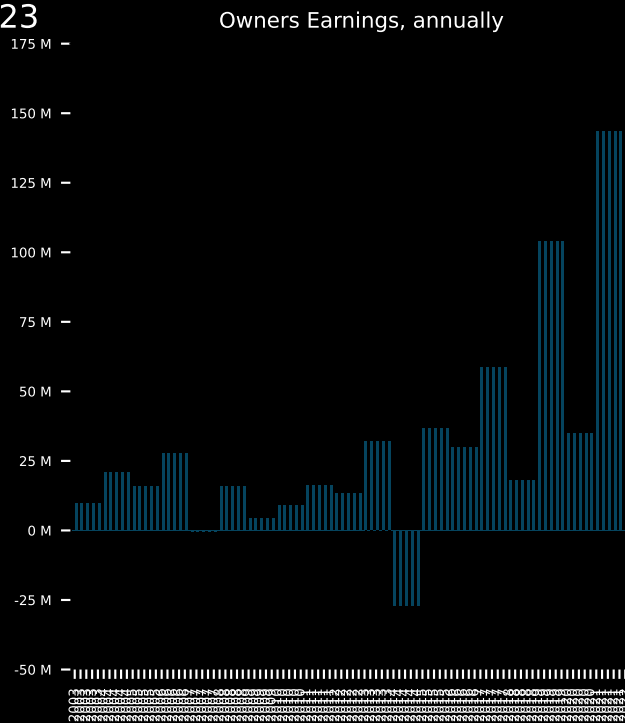
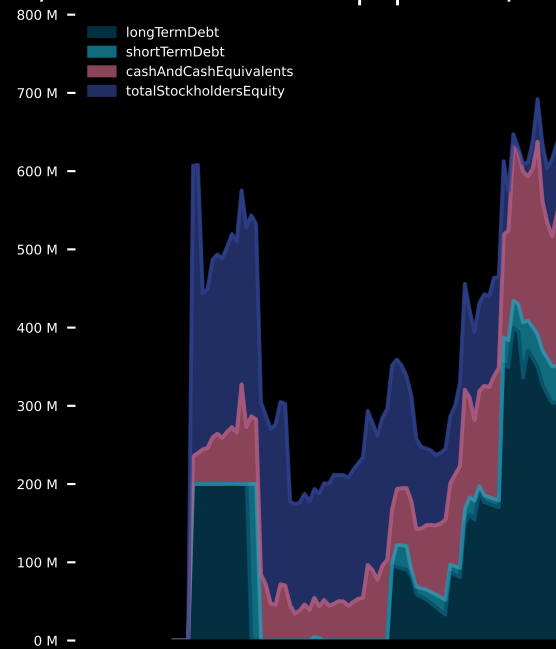
CTR / Communication Equipment / US / 2022-08-23



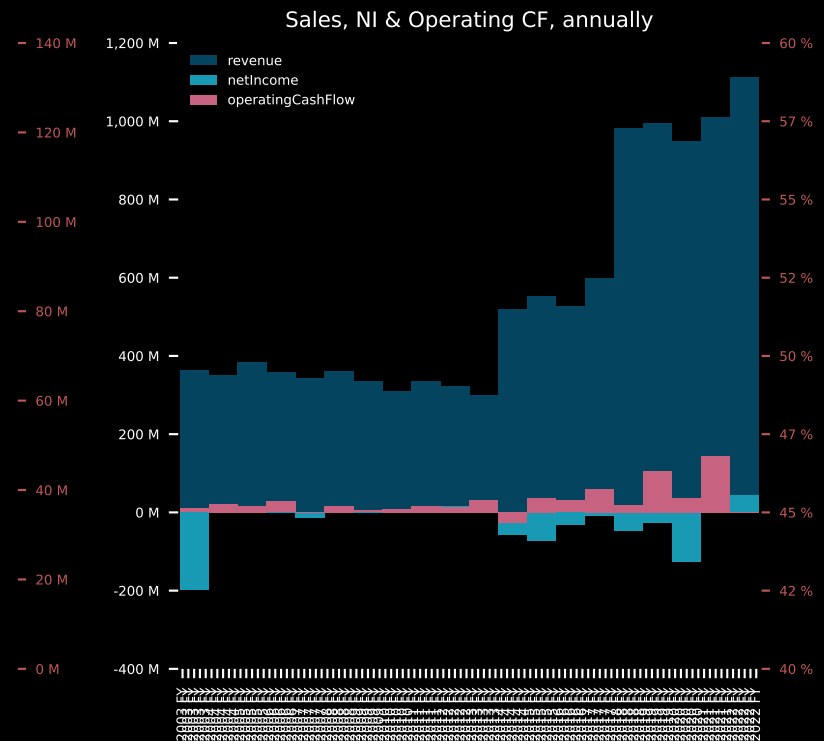
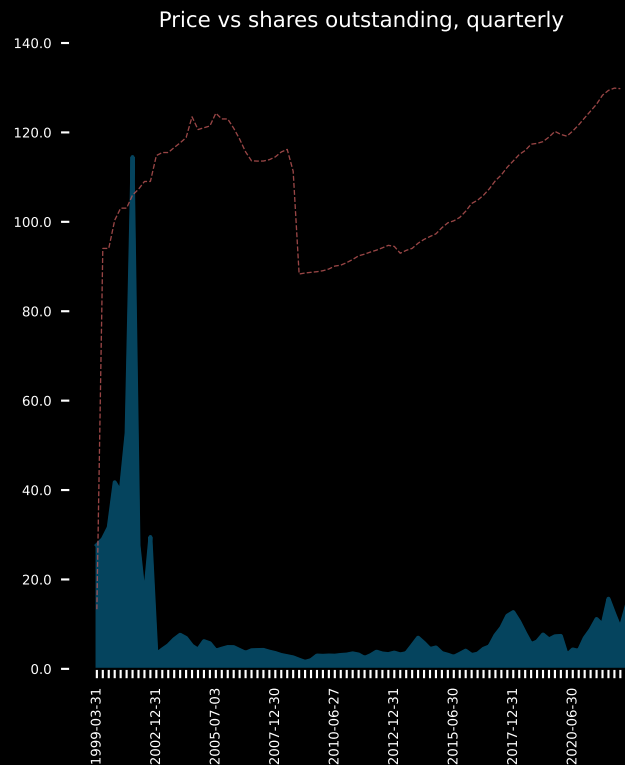
Extreme Networks, Inc. provides software-driven networking solutions worldwide. It designs, develops, and manufactures wired and wireless network infrastructure equipment; and develops software for network management, policy, analytics, security, and access controls. The company offers ExtremeCloud IQ, an ML/AI powered, wired, and wireless cloud network management solution that offers advanced visibility and control over users, devices, and applications; ExtremeCloud IQ ? Site Engine that provides task automation, access control, granular visibility with real-time analytics and multi-vendor device management; and ExtremeCloud IQ Essentials offers WIPS, location services, IoT, and guest management services. It also provides wireless access point products; ExtremeSwitching portfolio that includes access edge products that offer physical presentations along with options to deliver Ethernet or convergence-friendly Power-over-Ethernet (POE), including high-power universal POE; aggregation/core switches designed to address aggregation, top-of-rack, and campus core environments; and data center switches and network controllers that offer a wide range of



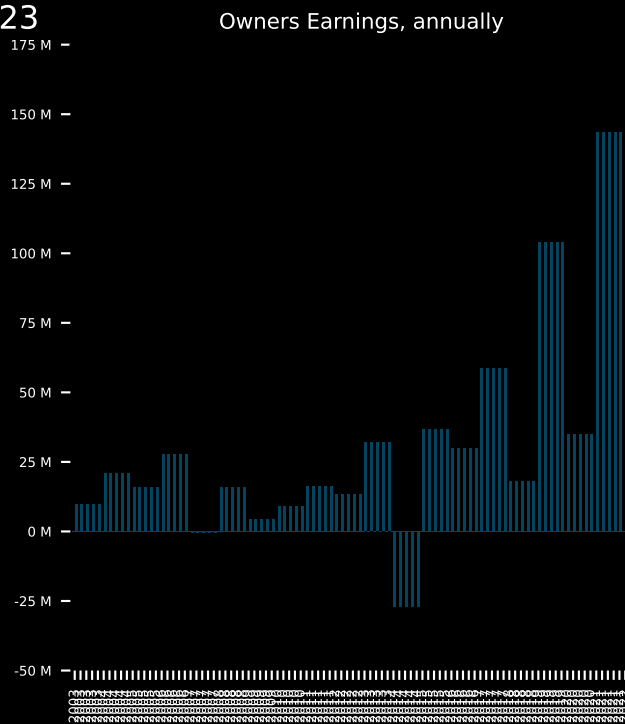
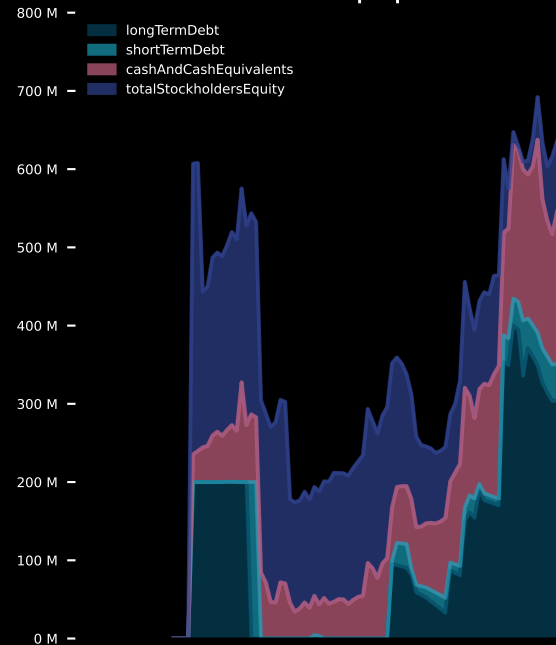
CTR / Communication Equipment / US / 2022-08-23



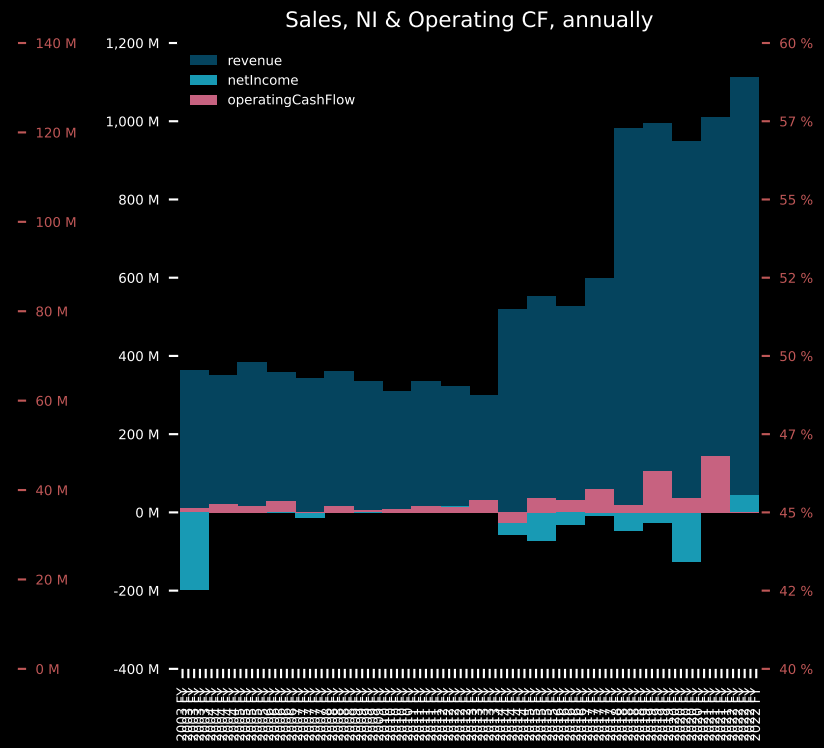
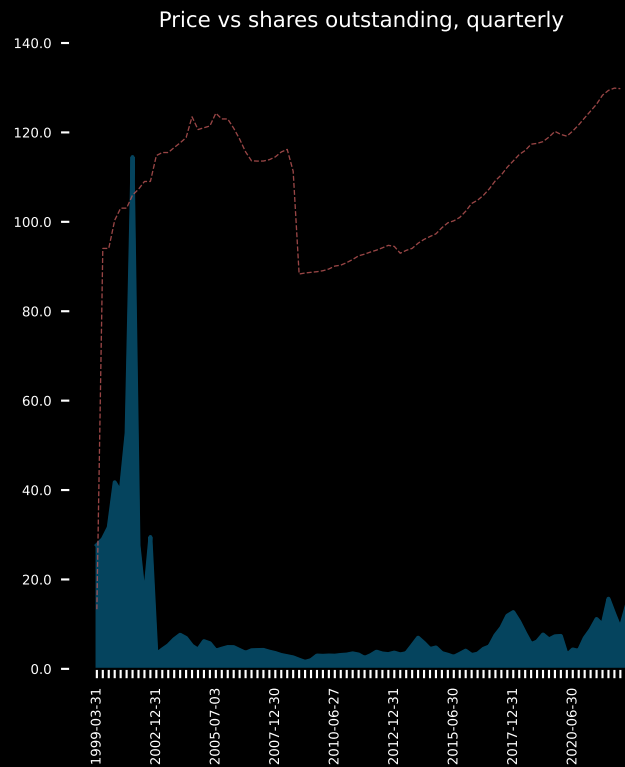
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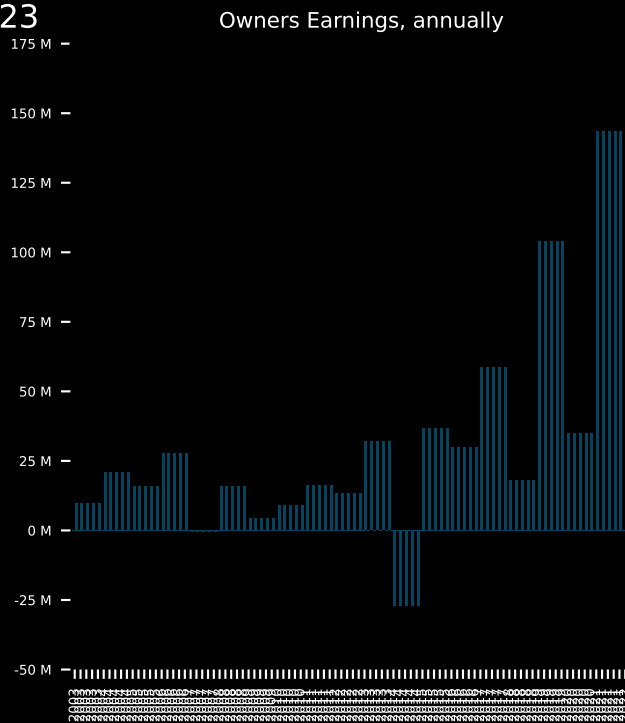
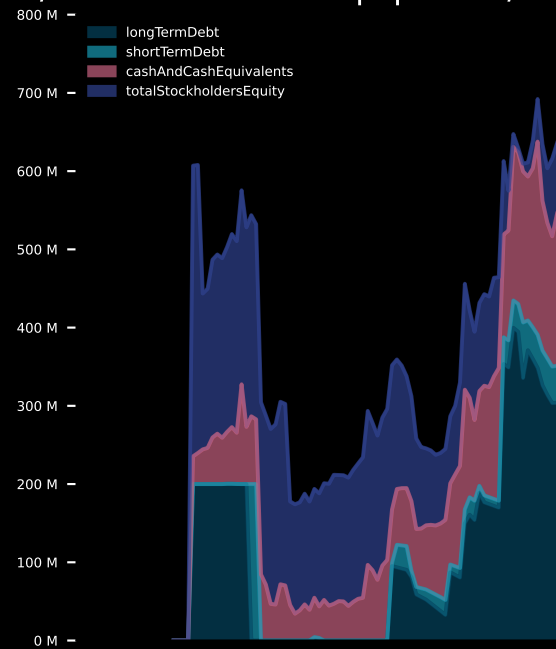
CTR / Communication Equipment / US / 2022-08-23



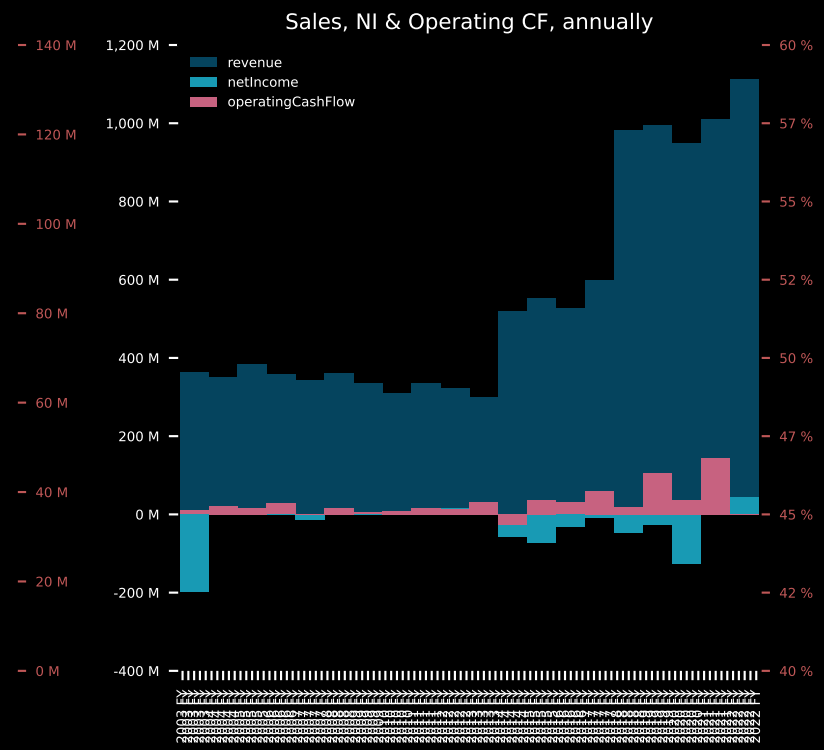
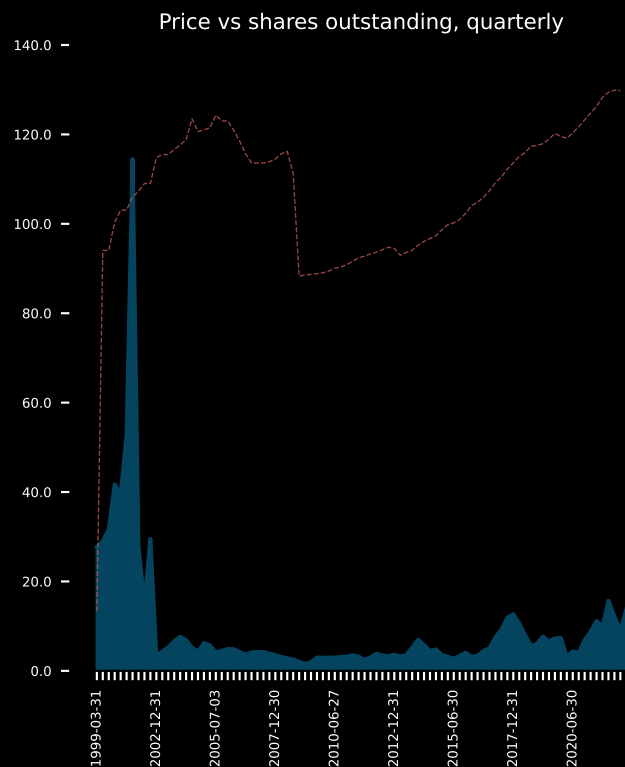
Extreme Networks, Inc. provides software-driven networking solutions worldwide. It designs, develops, and manufactures wired and wireless network infrastructure equipment; and develops software for network management, policy, analytics, security, and access controls. The company offers ExtremeCloud IQ, an ML/AI powered, wired, and wireless cloud network management solution that offers advanced visibility and control over users, devices, and applications; ExtremeCloud IQ ? Site Engine that provides task automation, access control, granular visibility with real-time analytics and multi-vendor device management; and ExtremeCloud IQ Essentials offers WIPS, location services, IoT, and guest management services. It also provides wireless access point products; ExtremeSwitching portfolio that includes access edge products that offer physical presentations along with options to deliver Ethernet or convergence-friendly Power-over-Ethernet (POE), including high-power universal POE; aggregation/core switches designed to address aggregation, top-of-rack, and campus core environments; and data center switches and network controllers that offer a wide range of



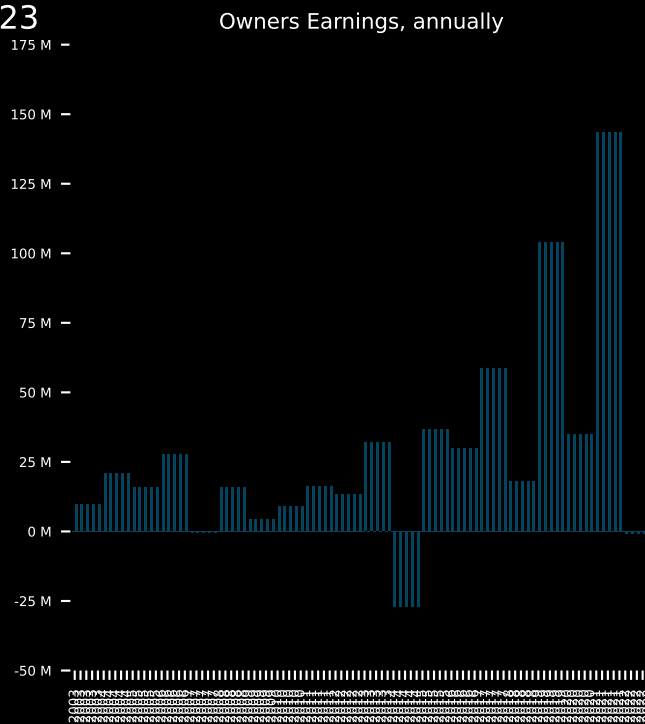
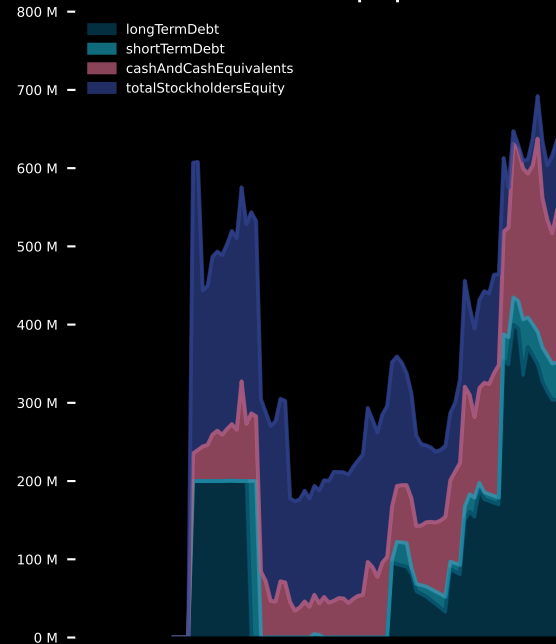
CTR / Communication Equipment / US / 2022-08-23



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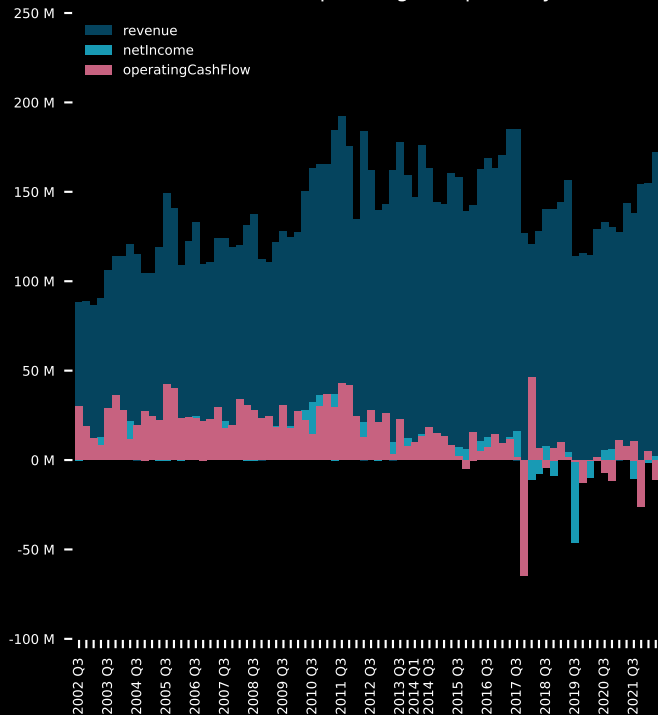


CTR / Communication Equipment / US / 2022-08-23

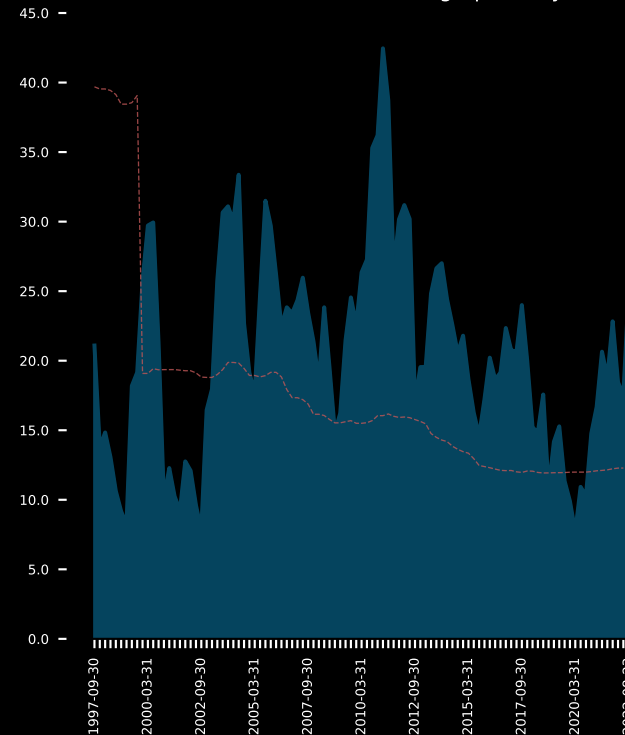


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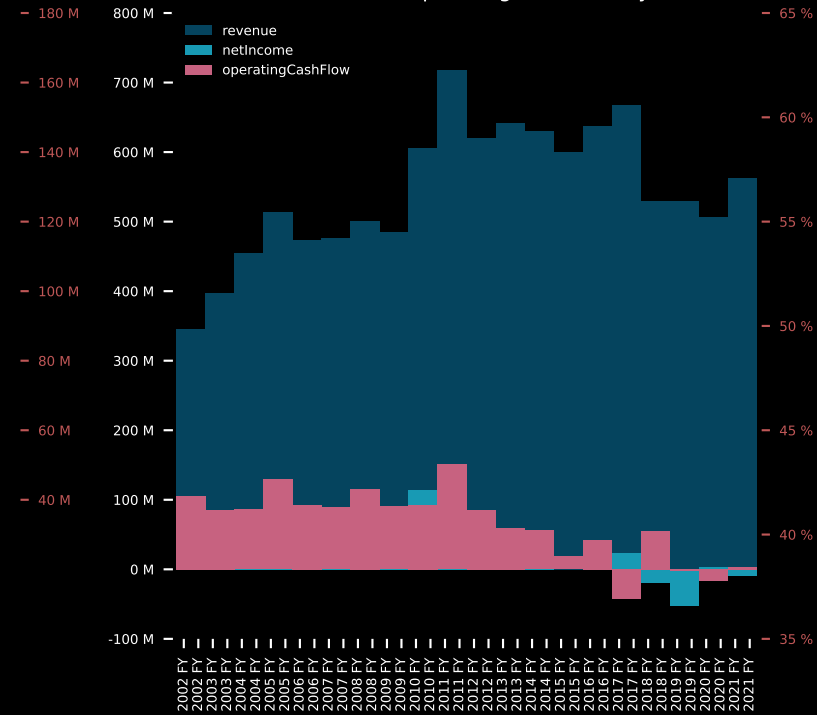
Sales, NI & Operating CF, quarterly



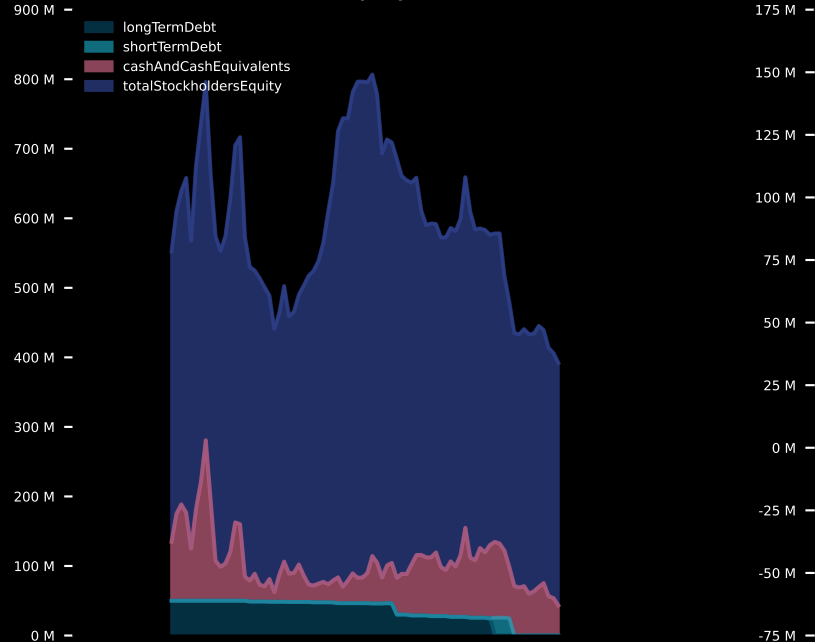
Price vs shares outstanding, quarterly



Sales, NI & Operating CF, annually



DTN / Communication Equipment / US / 2022-08-23

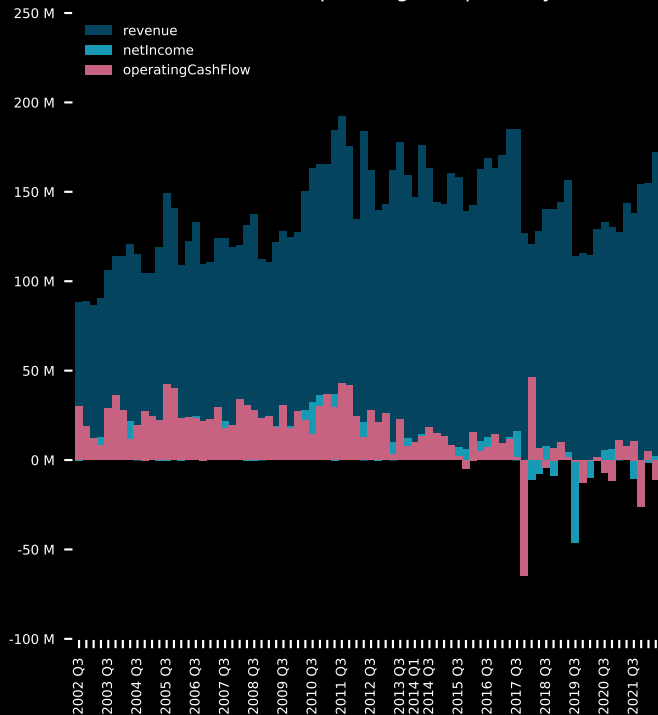


Owners Earnings, annually

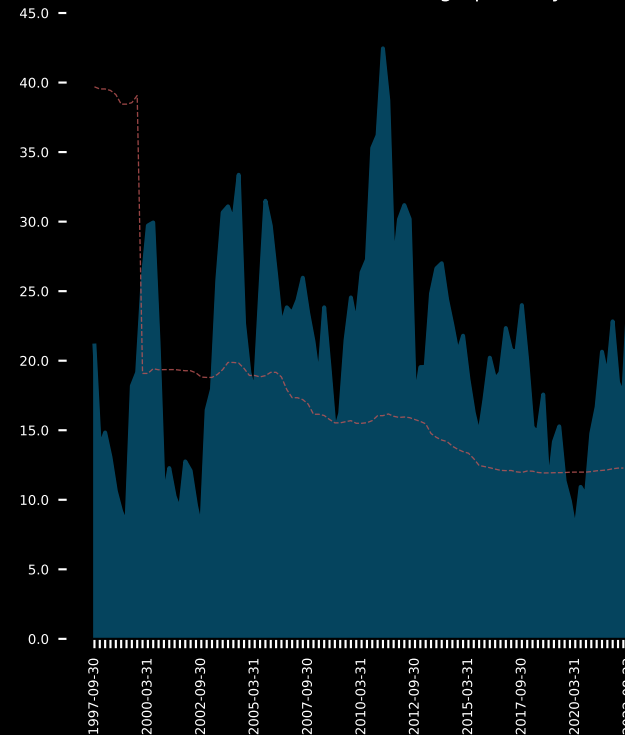


ADTRAN Holdings, Inc., through its subsidiaries, provides end-to-end fiber networking solutions for communications service provider, enterprises, and government customers in the United States, Germany, the United Kingdom, Mexico, and internationally. It operates through two segments, Network Solutions, and Services & Support. The company offers fiber access and fiber to the node platforms; transceivers, cables, and other miscellaneous materials; passive optical network optical line terminals; fiber to the distribution point Gfast distribution point units; cabinet and outside plant enclosures and services; packet optical transports; fixed wireless access platforms; and network management and subscriber services, and control and orchestration software. It also provides broadband customer premises solutions, ethernet switches and routers, residential gateways, cloud-based software-as-a-service management platforms, virtual wireless local area networks, Internet of Things gateways, pre-sale and post-sale technical support, and multi-gigabit mesh Wi-Fi gateways. In addition, the company offers time division multiplexed and asynchronous transfer

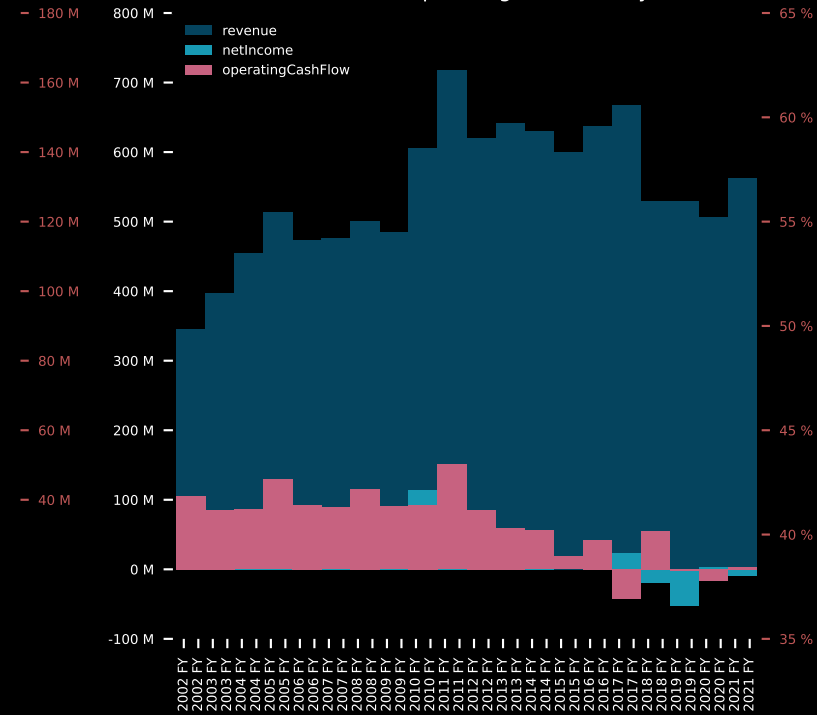
Sales, NI & Operating CF, quarterly



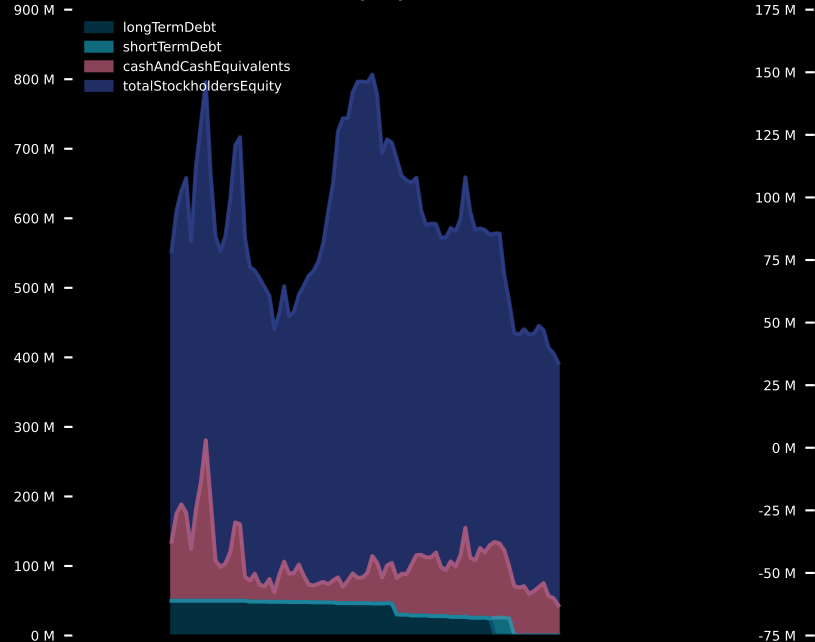
Price vs shares outstanding, quarterly



Sales, NI & Operating CF, annually



DTN / Communication Equipment / US / 2022-08-23

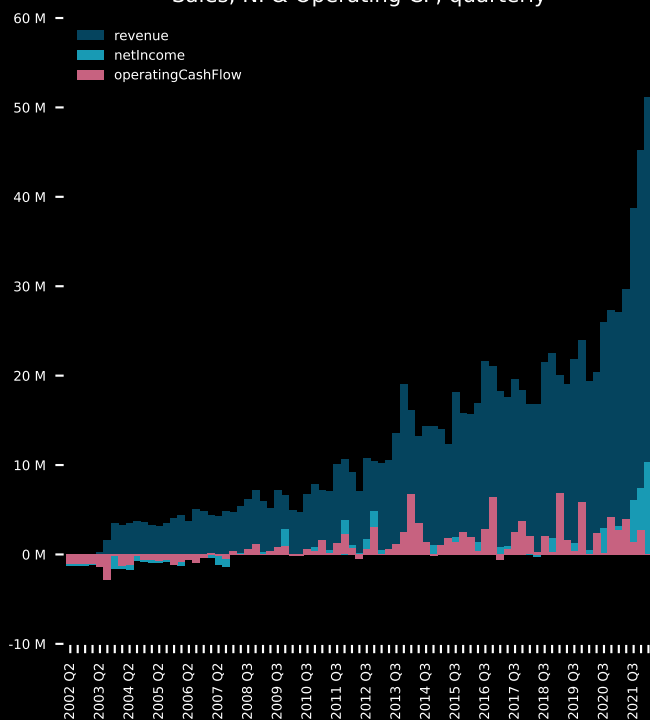


Owners Earnings, annually

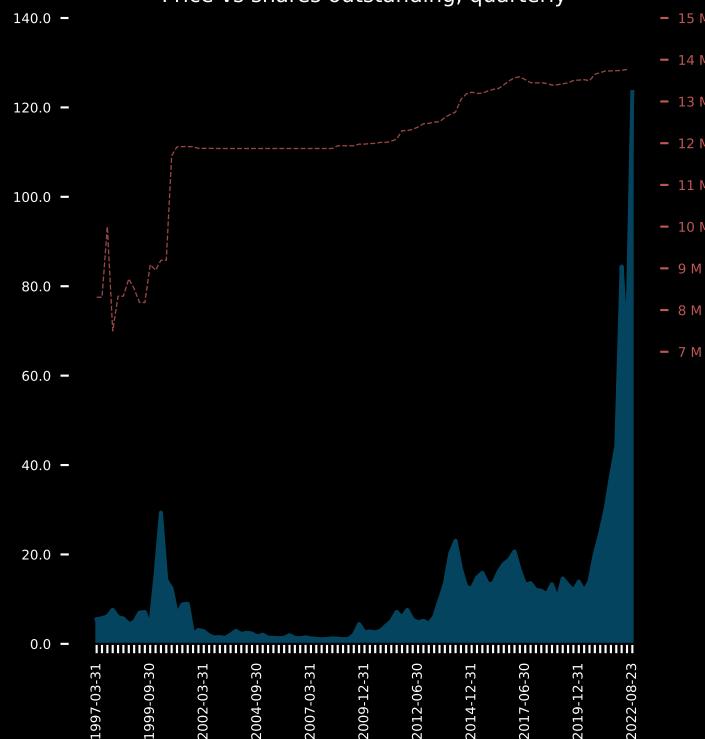


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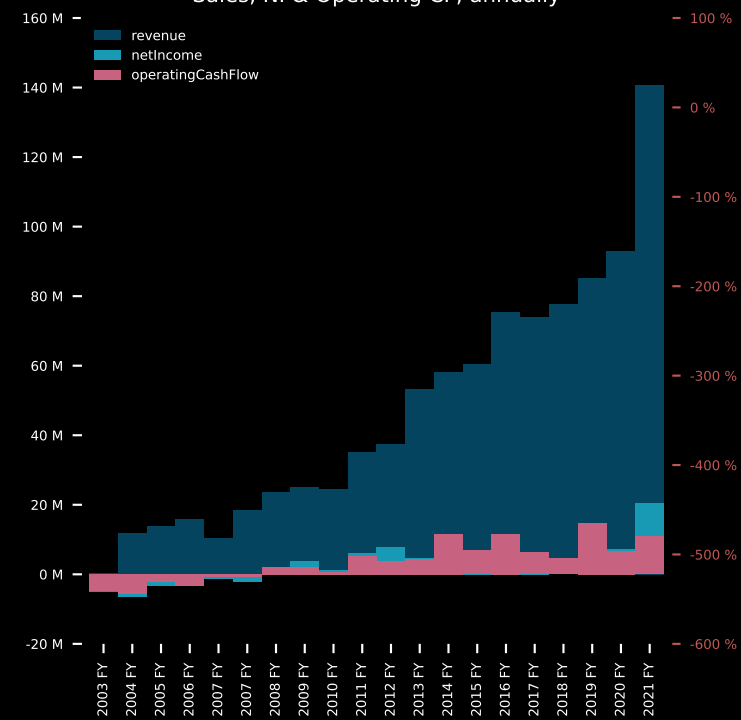
Sales, NI & Operating CF, quarterly



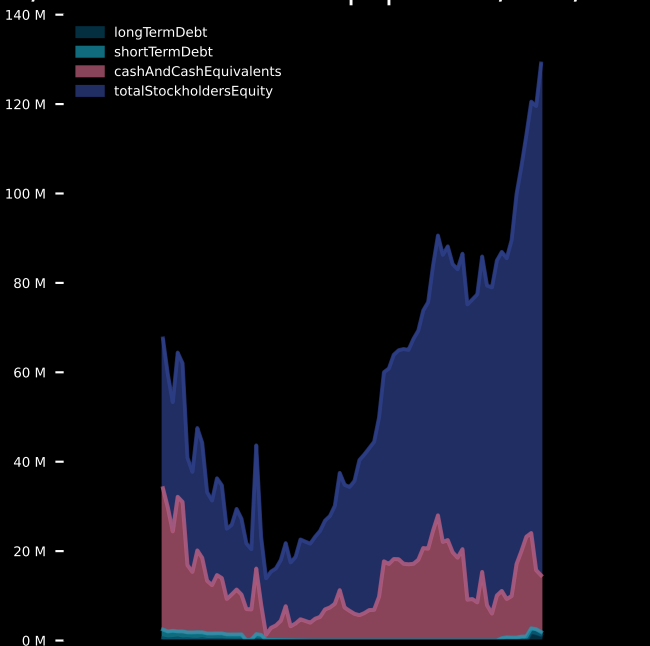
Price vs shares outstanding, quarterly



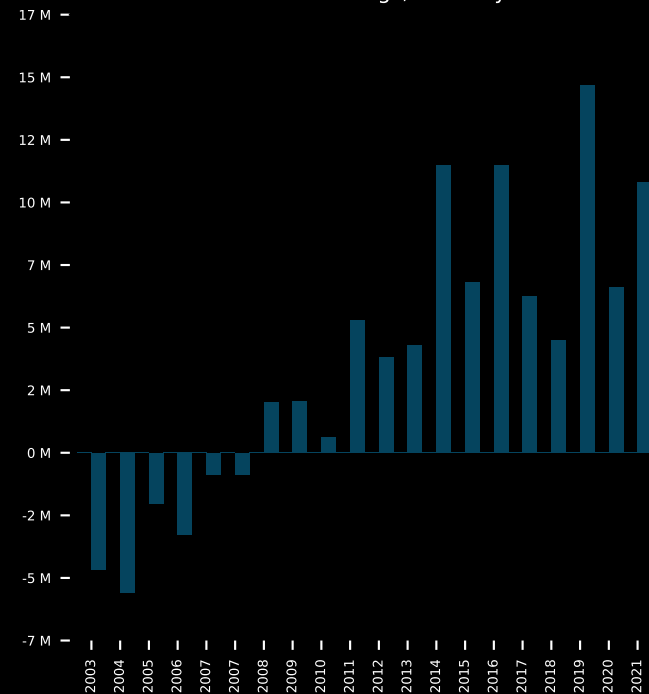
Sales, NI & Operating CF, annually



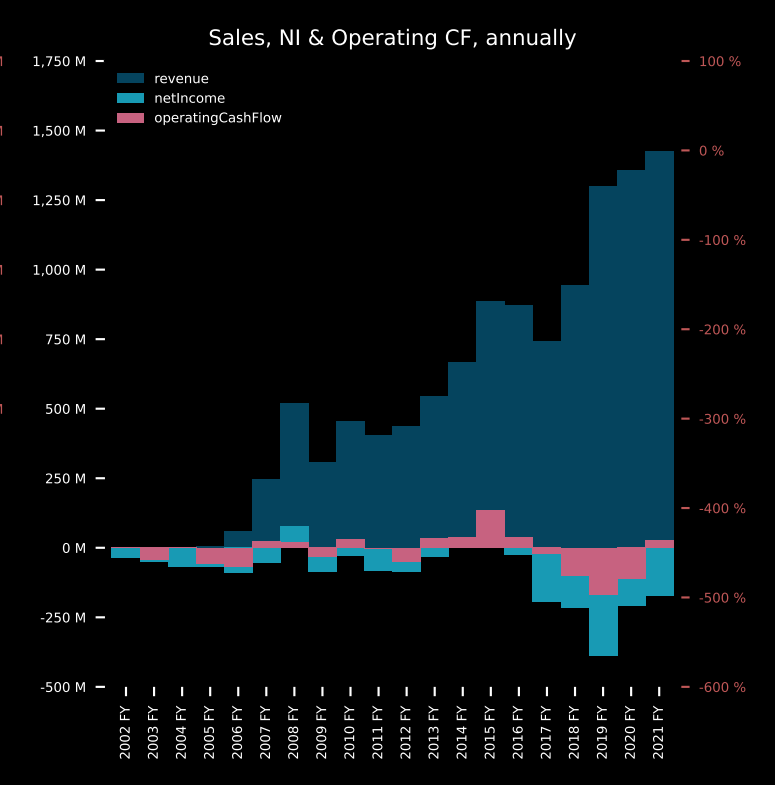
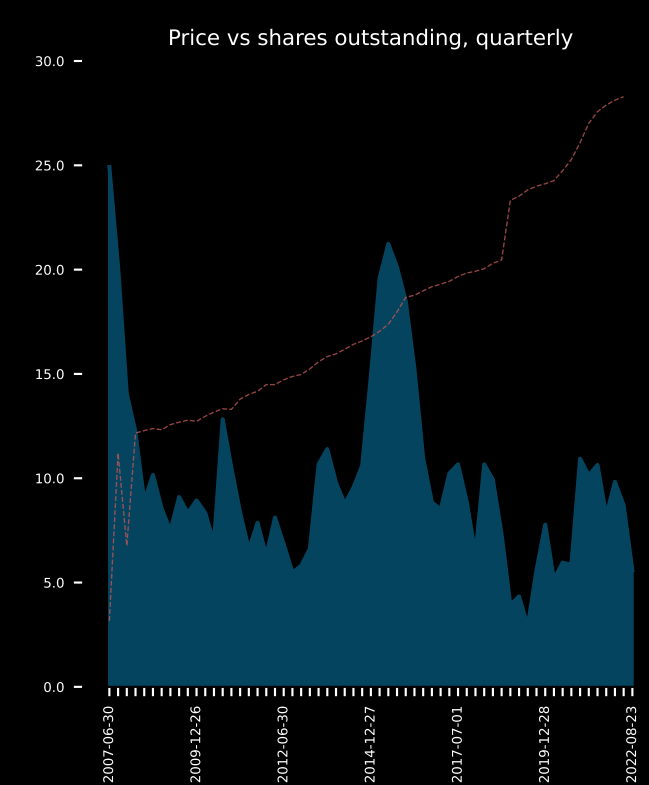
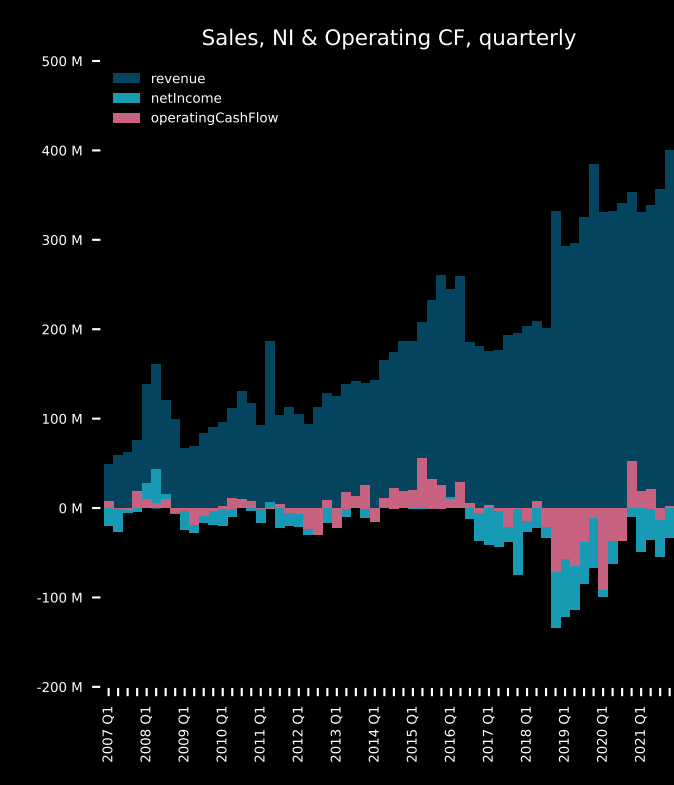
FD / Communication Equipment / US / 2022-08-23



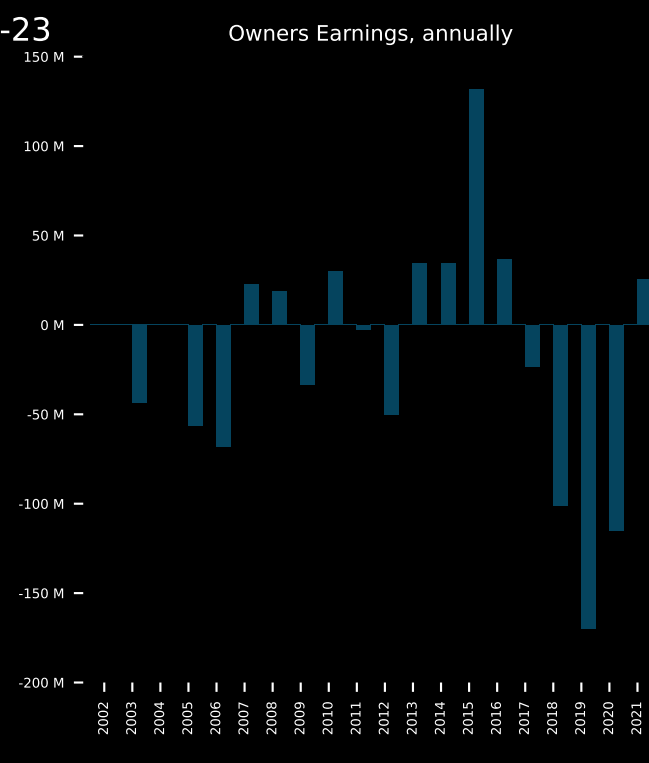
Owners Earnings, annually



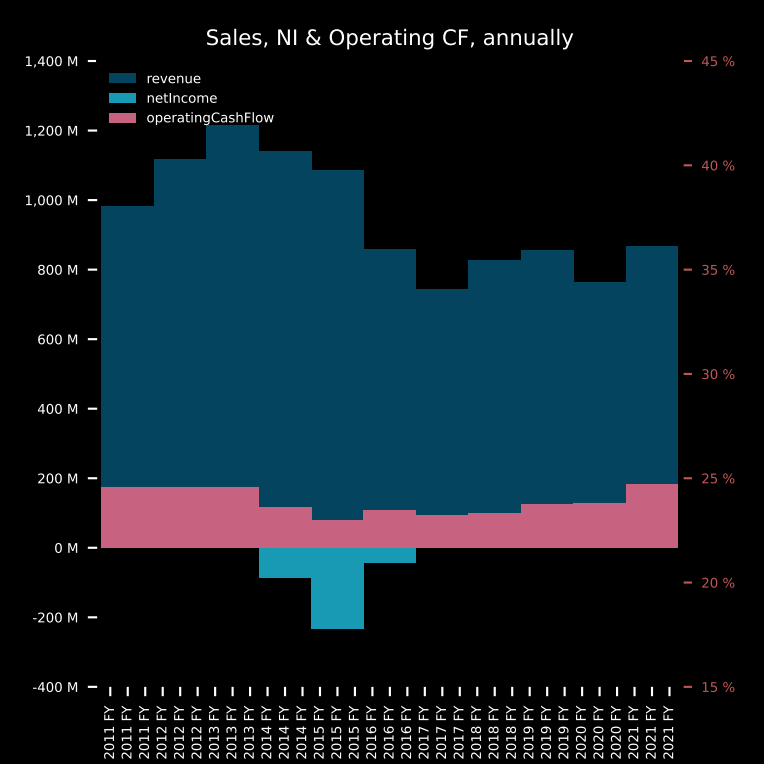
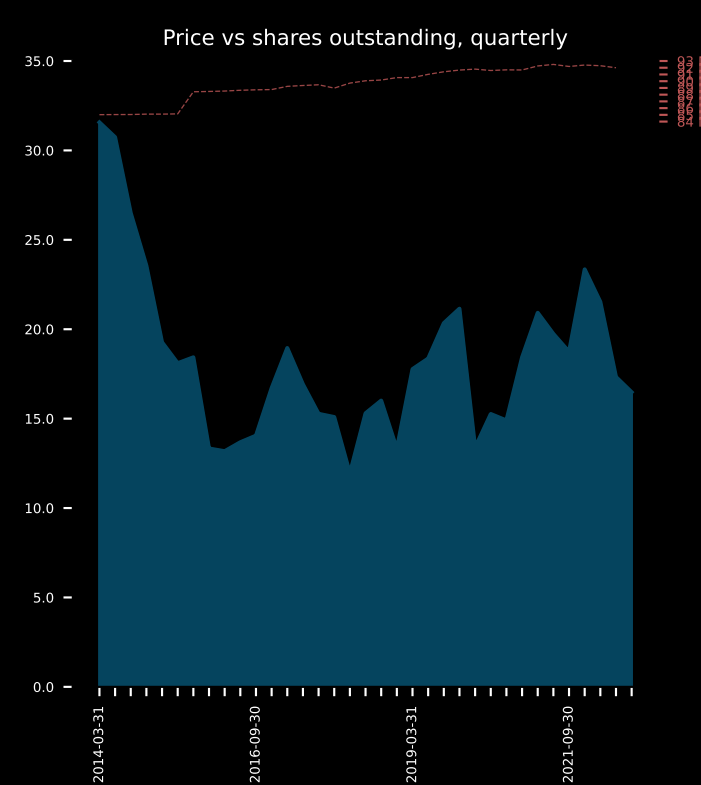
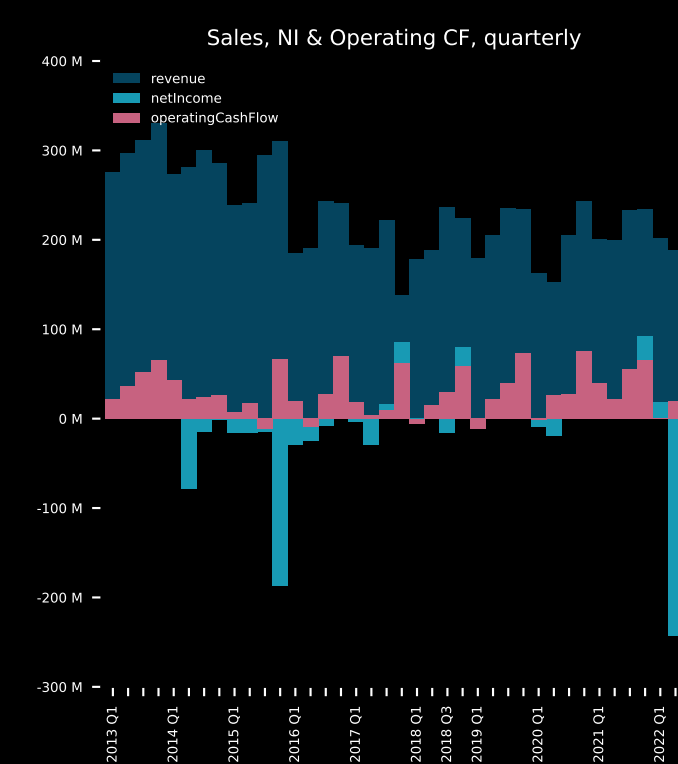
Clearfield, Inc. manufactures, markets, and sells standard and custom passive connectivity products to the fiber-to-the-premises, enterprises, and original equipment manufacturers markets in the United States and internationally. The company offers FieldSmart, a series of panels, cabinets, wall boxes, and other enclosures. It also provides WaveSmart, which are optical components integrated for signal coupling, splitting, termination, multiplexing, demultiplexing, and attenuation for integration within its fiber management platform; and outdoor cabinet and fiber active cabinet products. The company offers StreetSmart, a portfolio of fiber management products; FieldShield, a fiber pathway and protection method for reducing the cost of broadband deployment; and YOURx platform that consists of hardened terminals, test access points, and various drop cable options for portions of the access network across various fiber drop cable media. It also provides CraftSmart, a line of optical protection field enclosures, including CraftSmart Fiber Protection Pedestals and CraftSmart Fiber Protection Vaults integrated solutions optimized to protect FieldSmart products and the connectivity



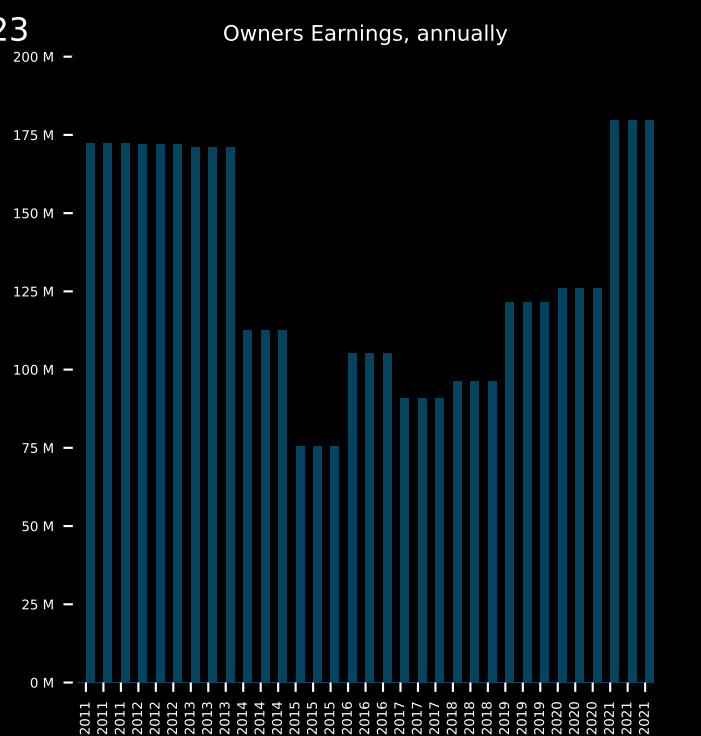
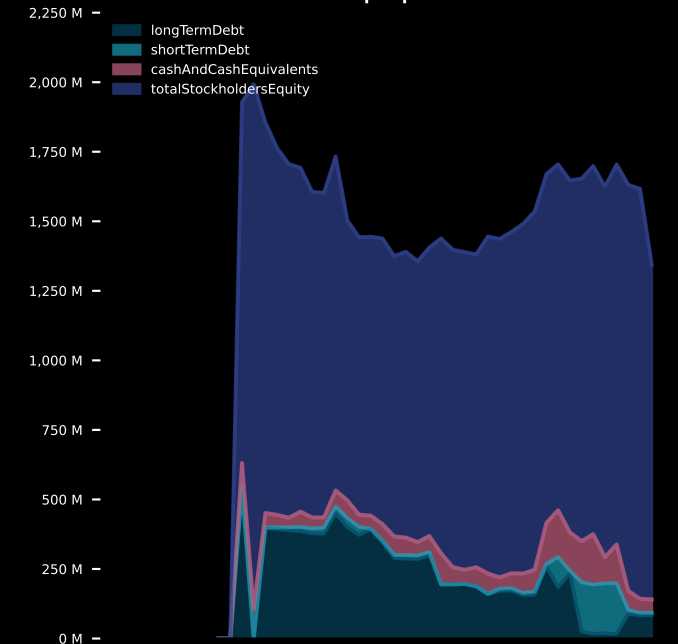
INFN / Communication Equipment / US / 2022-08-23



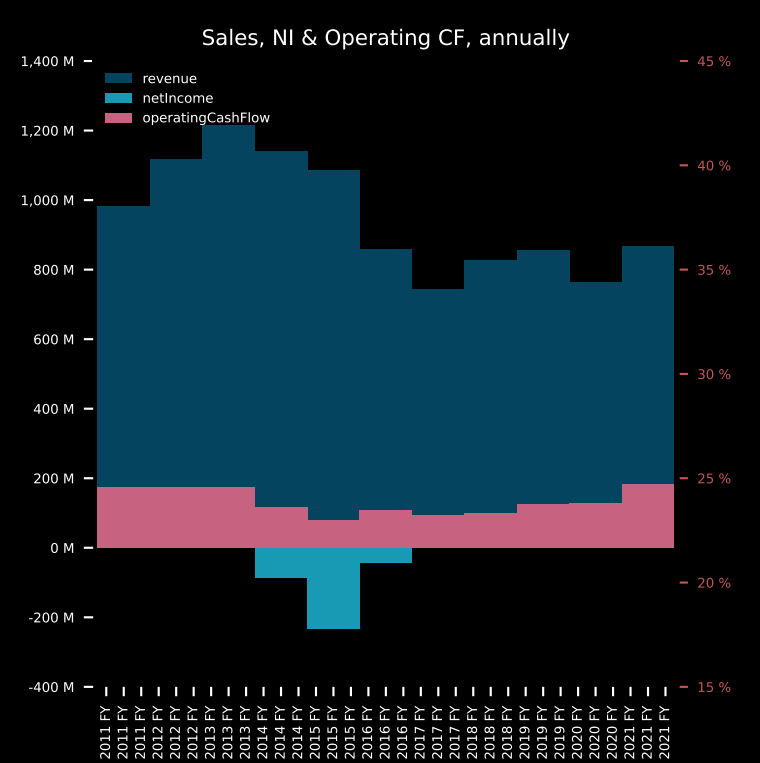
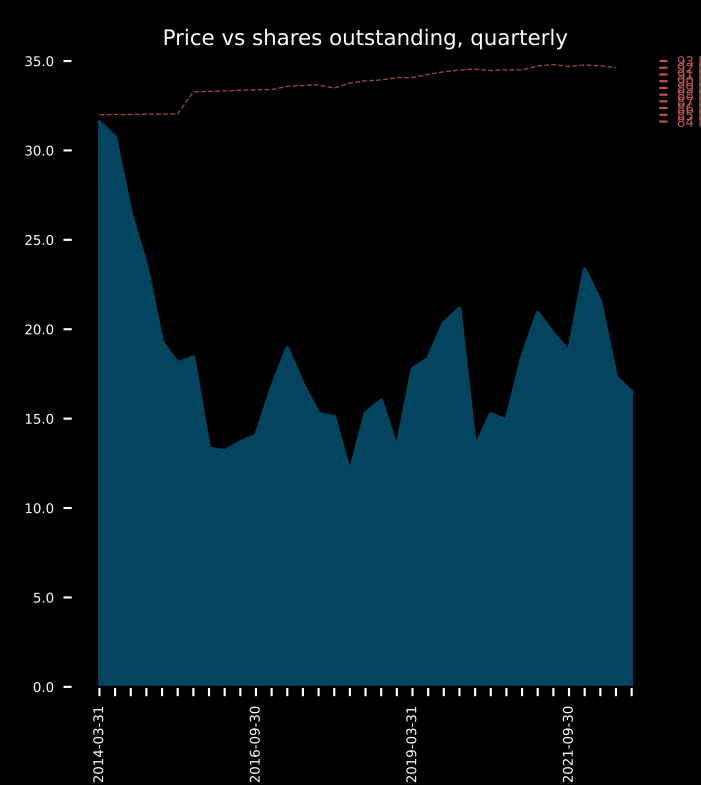
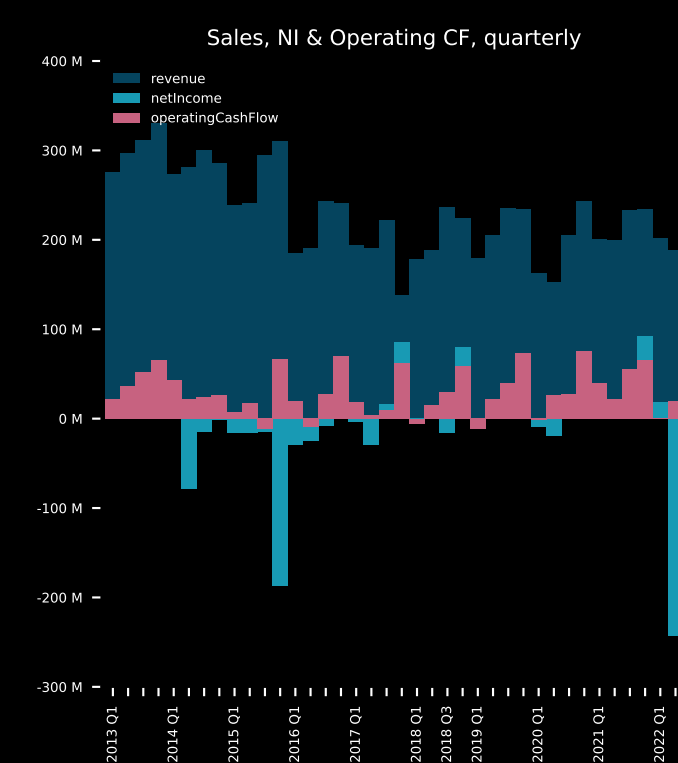
Infinera Corporation provides optical transport networking equipment, software, and services worldwide. The company's product portfolio includes Infinera Groove series for modular and sled-based platforms to support a various transport network applications; Infinera 7300 series, an SDN-ready coherent optical transport system; Infinera FlexILS open optical line system that connects various Infinera and third-party terminal equipment platforms over long-distance fiber optic cable providing switching, multiplexing, amplification, and management channels; and Infinera 7090 and 7100 series for transport platforms. It also offers Infinera XTM series, a packet-optical transport platform that enables metro connectivity solutions; Infinera XTC series, a multi-terabit packet optical transport platforms that integrates digital OTN switching and optical WDM transmission; Infinera mTera series, a network transport solution; and Infinera XT series, a platform that is designed to power cloud scale network services over metro, DCI, long-haul, and subsea networks. The company provides Infinera Cloud Xpress Family that is designed to meet the needs of cloud service providers (CSP).



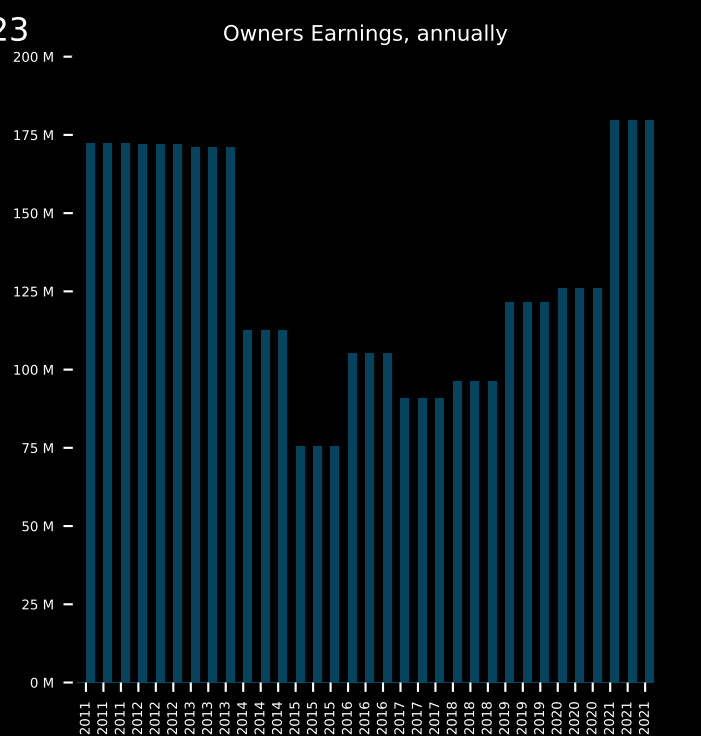
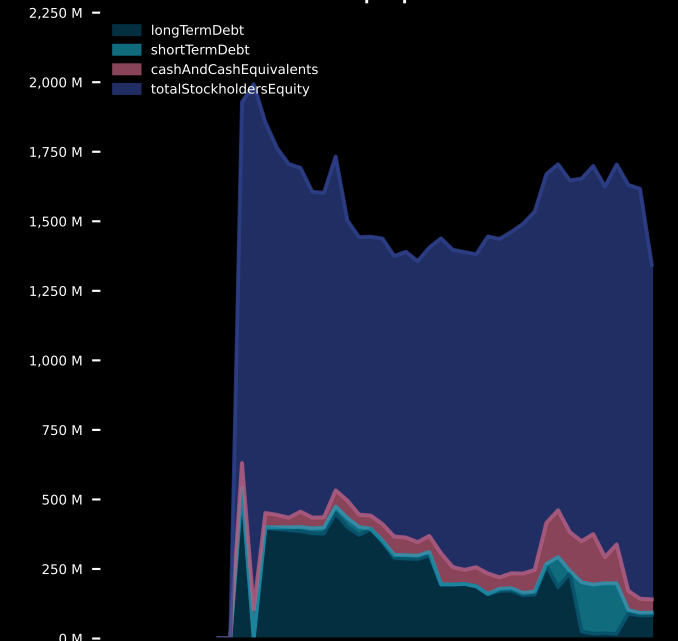
KN / Communication Equipment / US / 2022-08-23



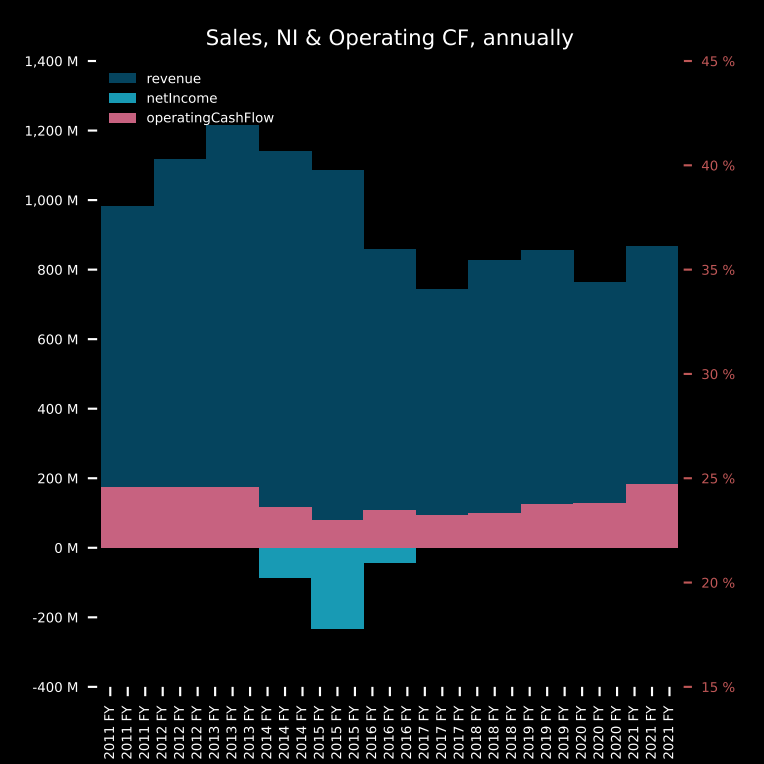
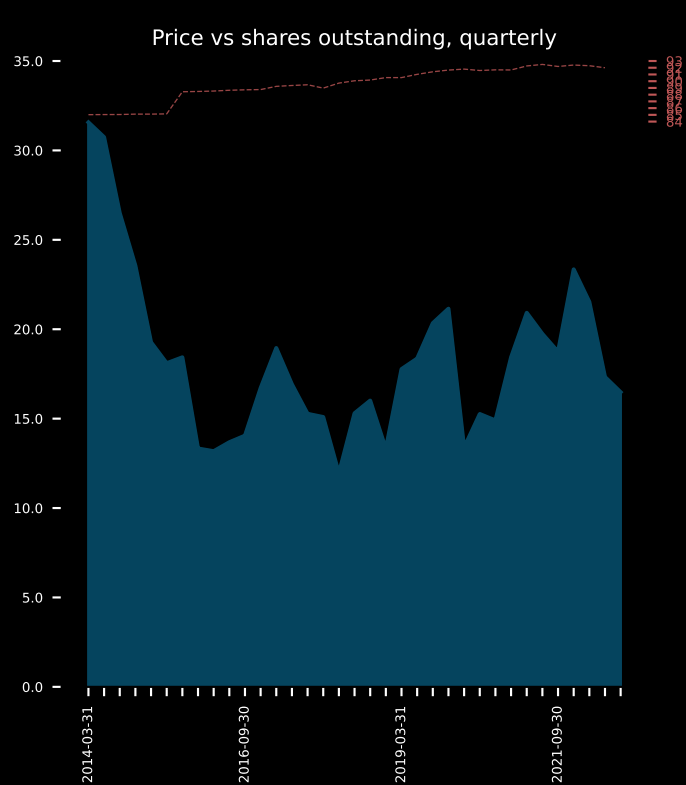
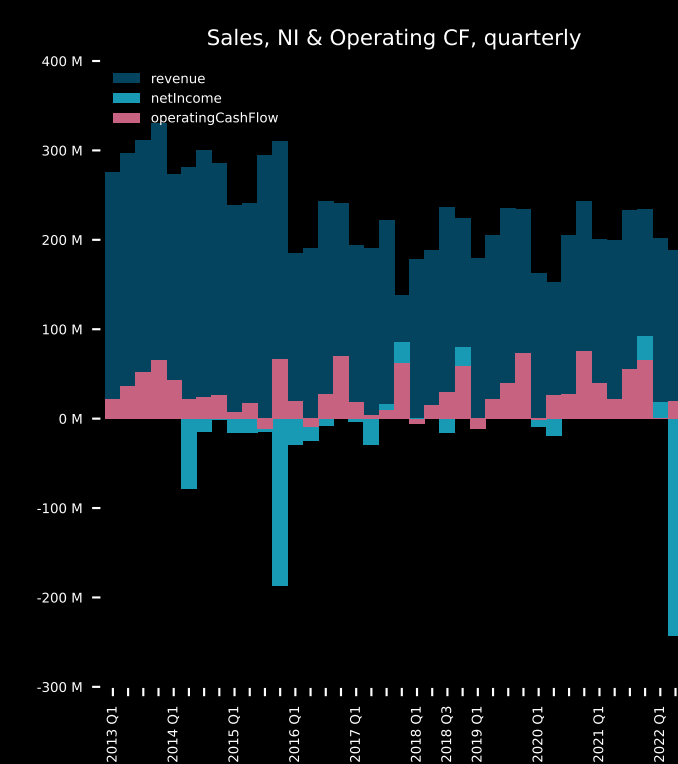
Knowles Corporation offers micro-acoustic microphones and balanced armature speakers, audio solutions, high performance capacitors, and radio frequency products for the consumer electronics, medtech, defense, electric vehicle, industrial, and communications markets. It operates in two segments, Audio and Precision Devices (PD). The Audio segment designs and manufactures audio products, including microphones, balanced armature speakers, and audio processors used in applications that serve the mobile, hearing health, True Wireless Stereo, Internet of Things, and computing markets. The PD segment is involved in the design and delivery of high-performance capacitor products and RF solutions that are used in applications, such as power supplies and medical implants, satellite communications, and radar systems, as well as for communications equipment. The company sells its products directly to original equipment manufacturers and to their contract manufacturers and suppliers, as well as through distributors. It has operations in Asia, the United States, Europe, other Americas, and internationally. The company was founded in 1946 and is headquartered in Norwalk, Connecticut.



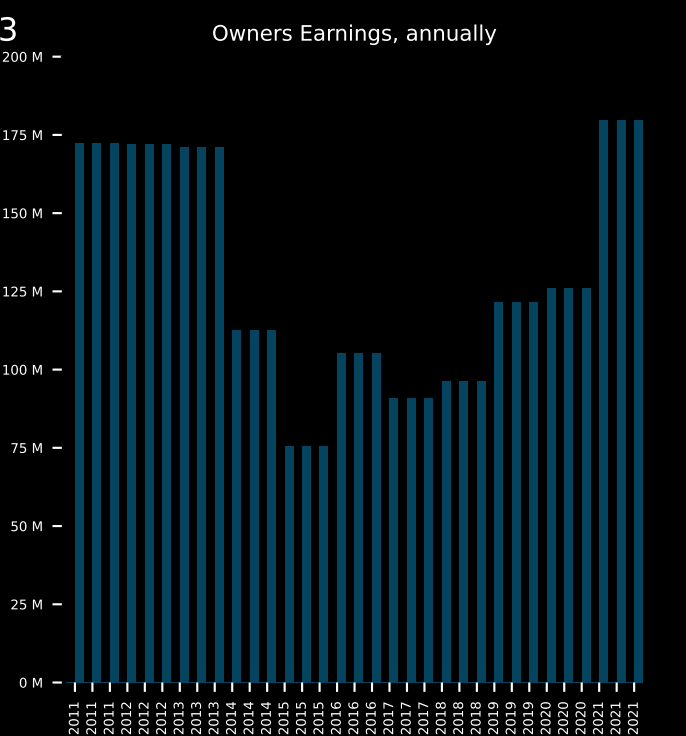
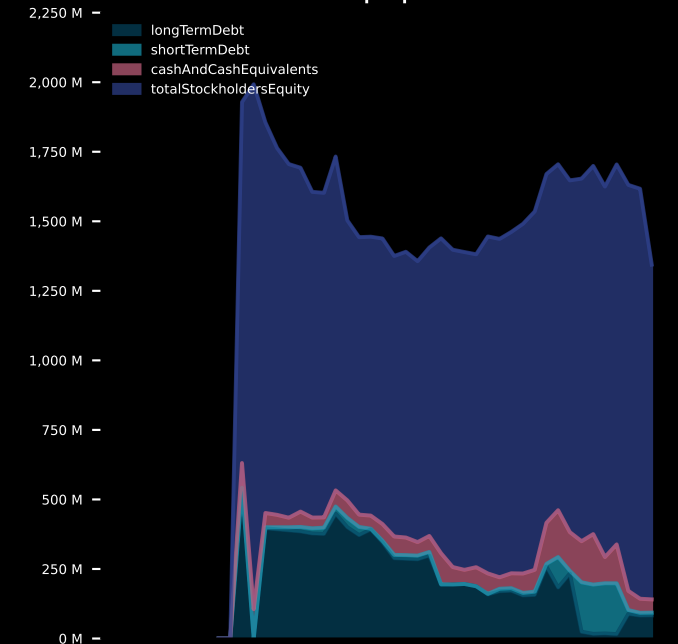
KN / Communication Equipment / US / 2022-08-23



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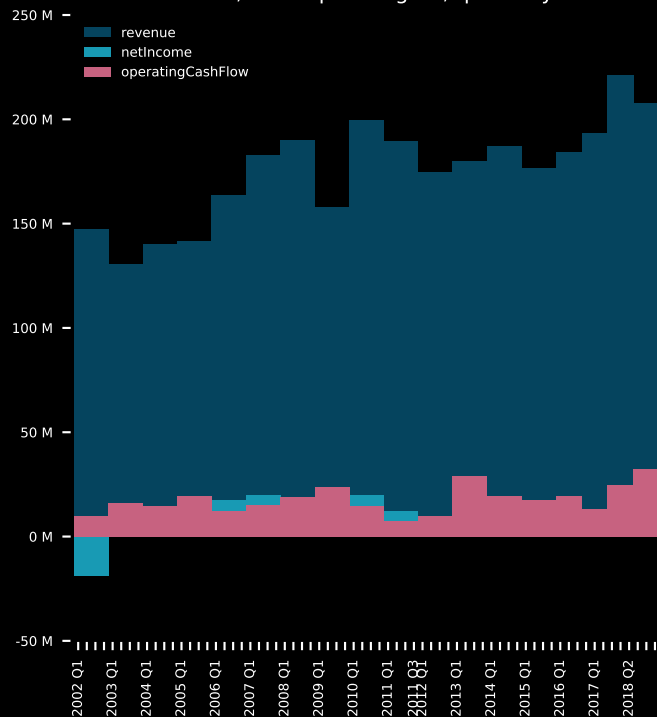


KN / Communication Equipment / US / 2022-08-23

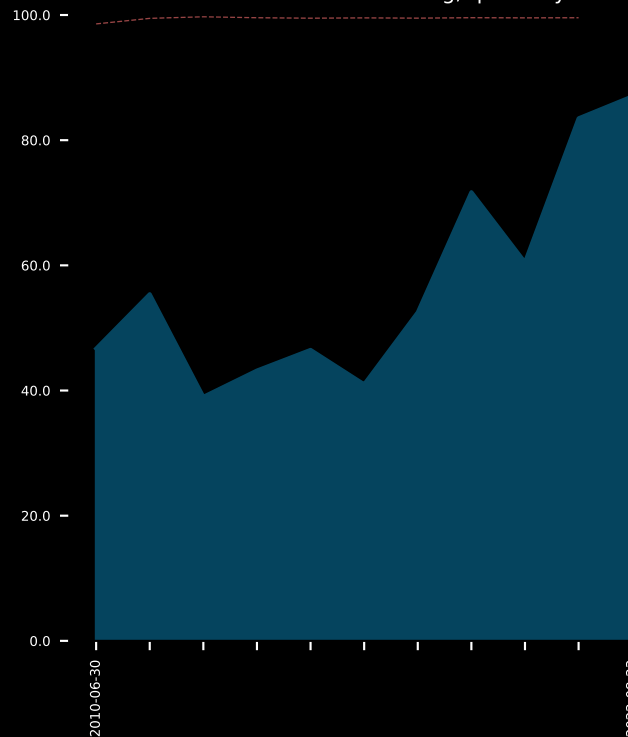


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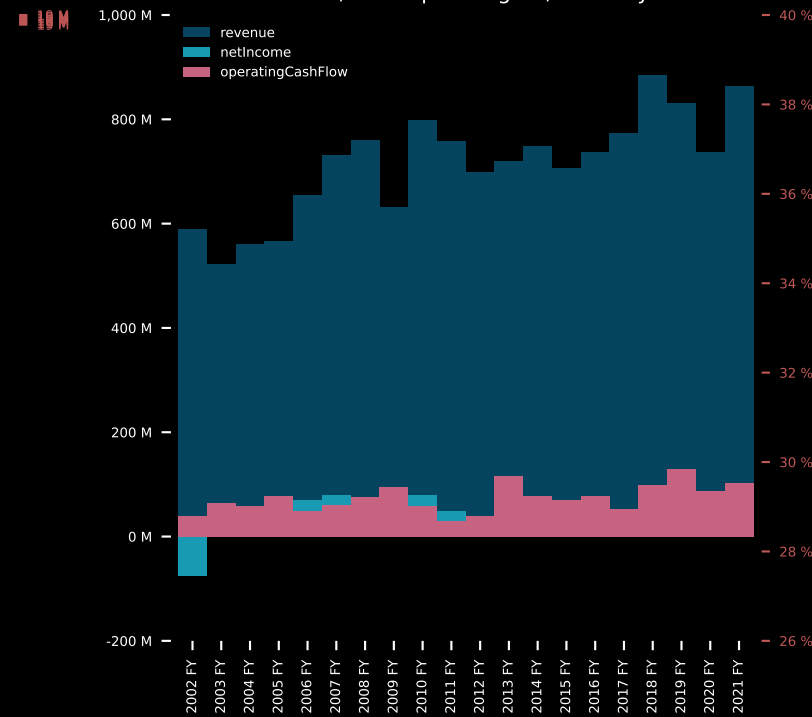
Sales, NI & Operating CF, quarterly



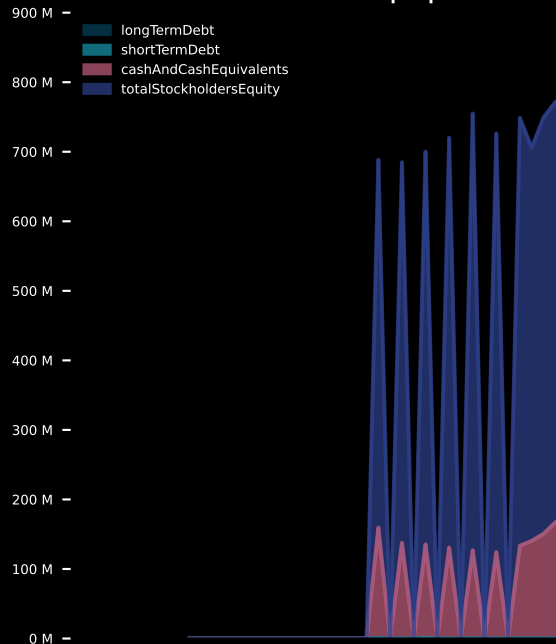
Price vs shares outstanding, quarterly



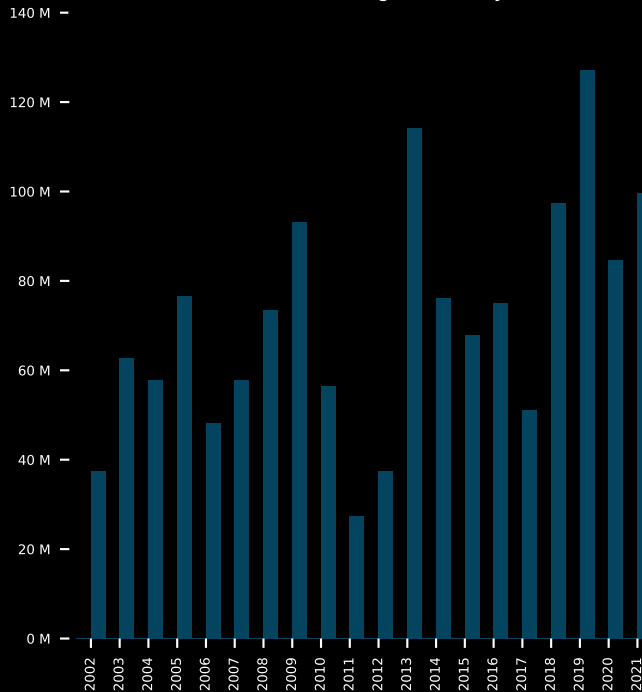
Sales, NI & Operating CF, annually



N.S.W / Communication Equipment / CH / 2022-08-23

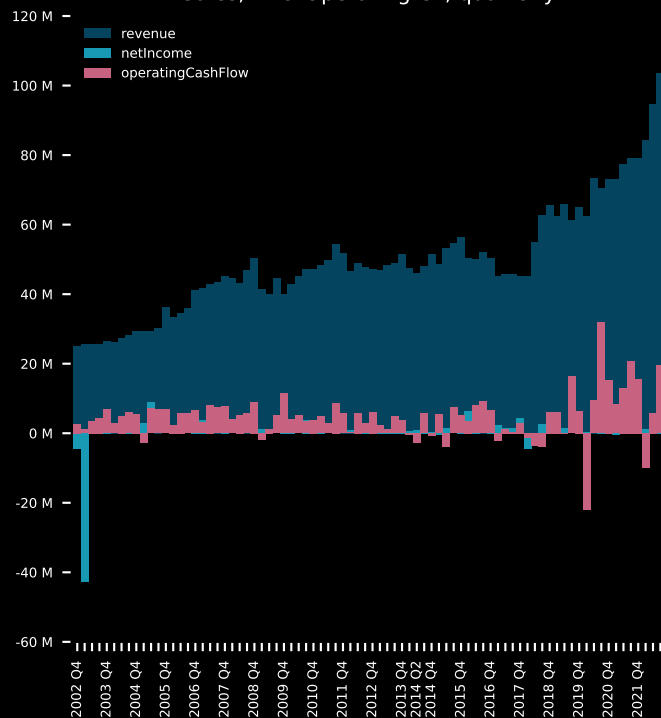


Owners Earnings, annually

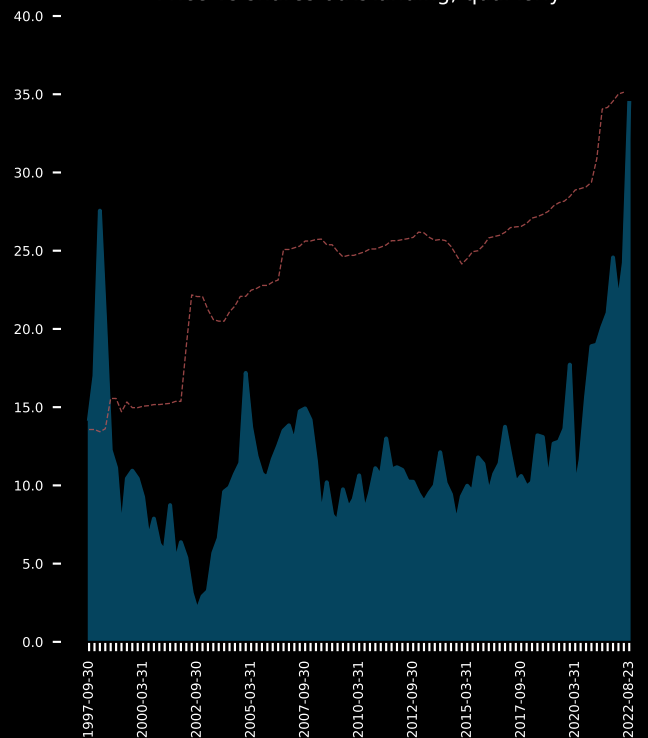


Huber+Suhner AG offers products and services for electrical and optical connectivity. The company operates through three segments: Industry, Communication, and Transportation. Its radio frequency (RF) products include antennas, cables and cable assemblies, connectors, adapters, lighting and EMP protectors, and RF components, as well as active RF-over-Fiber systems. The company's fiber optic products comprise connectors, optical components, cables, cable systems and assemblies, fiber management and hybrid installation systems, optical switches, network systems, cable cutting and stripping tools, termination tools, polishing tools, cleaning tools, tuning equipment, performance measurement tools, accessories, cleaning brush, cassette cleaners, cleaners, and rapstraps. Its low frequency products include cable, charging, and power distribution systems; data transmission products; and signal and power cables. The company is also involved in the cube optics, injection molding, plating, and polatis businesses. Huber+Suhner AG was founded in 1864 and is headquartered in Herisau, Switzerland.

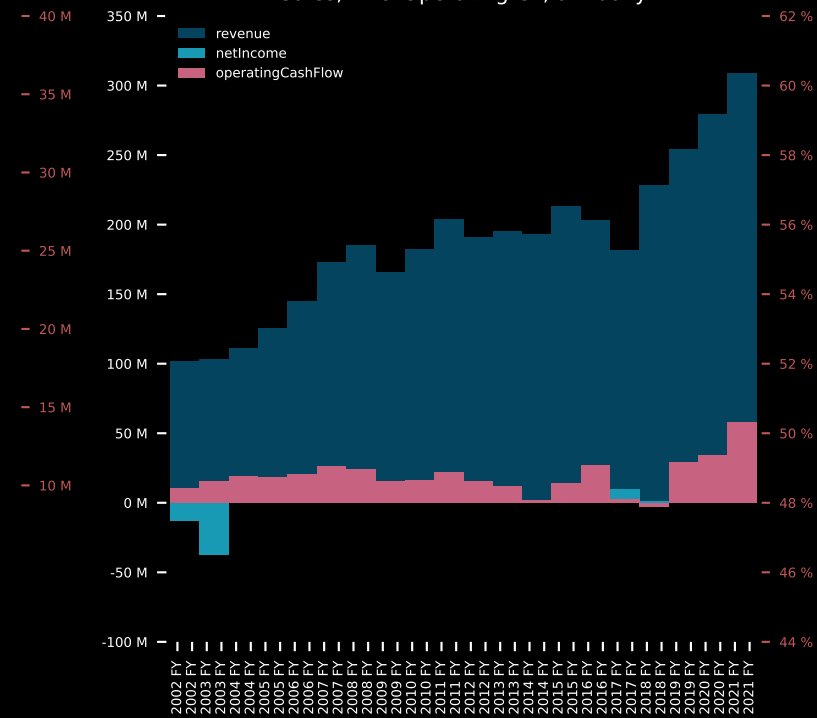
Sales, NI & Operating CF, quarterly



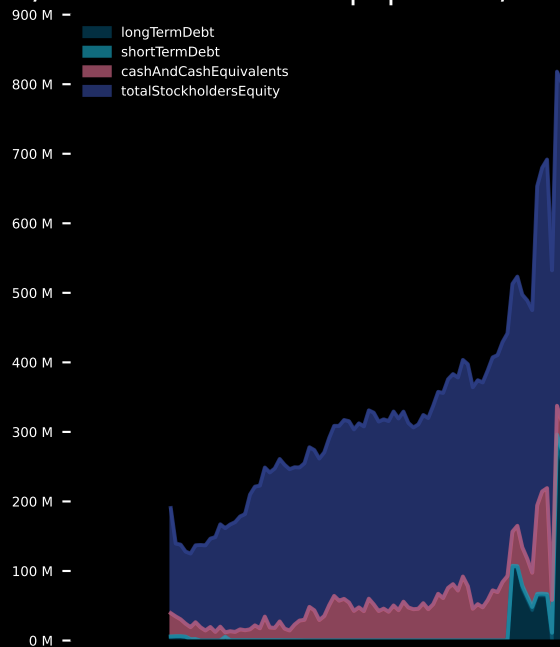
Price vs shares outstanding, quarterly



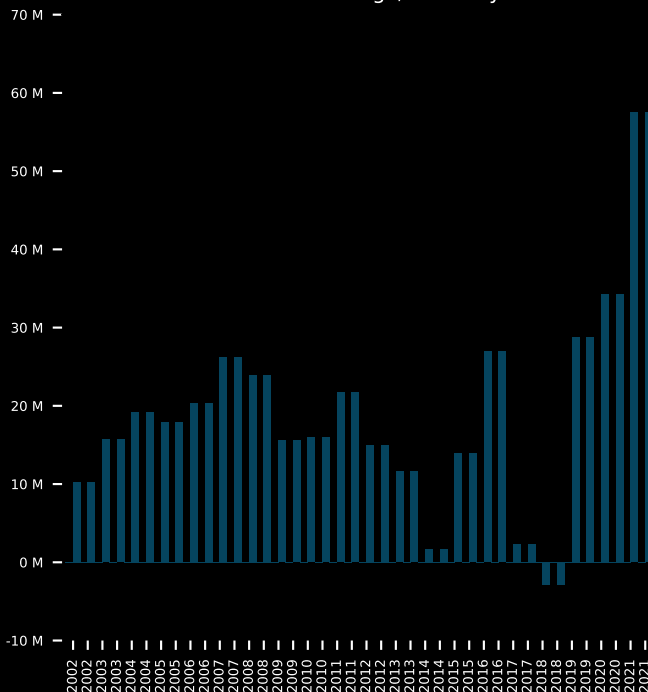
Sales, NI & Operating CF, annually



GII / Communication Equipment / US / 2022-08-23

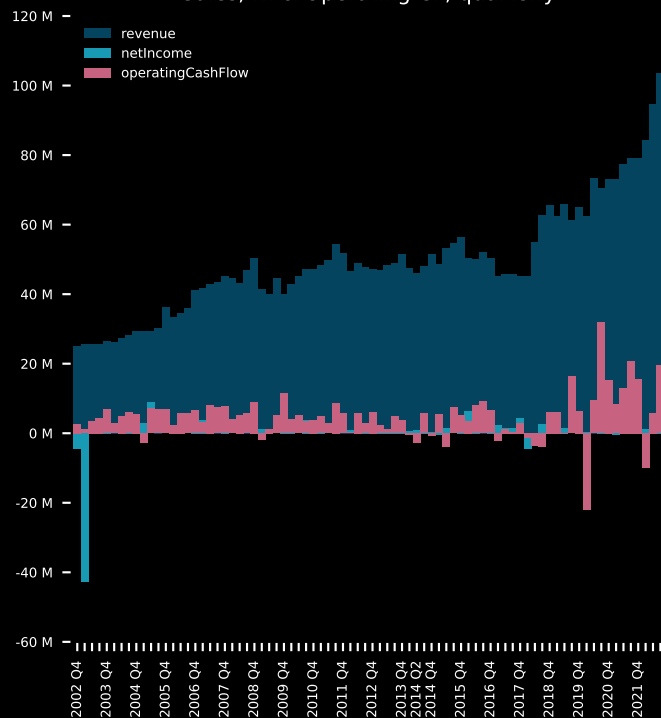


Owners Earnings, annually

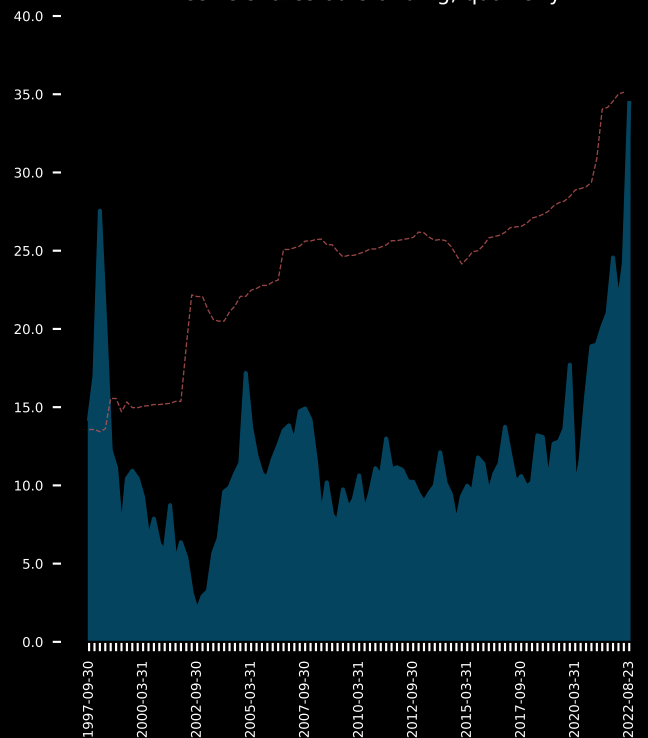


Digi International Inc. provides business and mission-critical Internet of Things (IoT) products, services, and solutions in the United States and internationally. The company operates in two segments, IoT Products & Services and IoT Solutions. It offers cellular routers for mission-critical wireless connectivity; cellular modules to embed cellular communications abilities into the products to deploy and manage intelligent and secure cellular connected products; console servers to provide secure and remote access to network equipment in data centers and at edge locations; and radio frequency products, including embedded wireless modules, off-the-shelf gateways, modems, and adapters under the Digi XBee brand. The company provides embedded system products under the Digi Connect, ConnectCore, and Rabbit brands; and infrastructure management products, comprising of serial servers, which offers serial port-to-Ethernet integration of devices into wired Ethernet networks; and universal serial bus solutions. In addition, it offers Digi Remote Manager, a recurring revenue cloud-based service that provides a managed service for IoT devices.

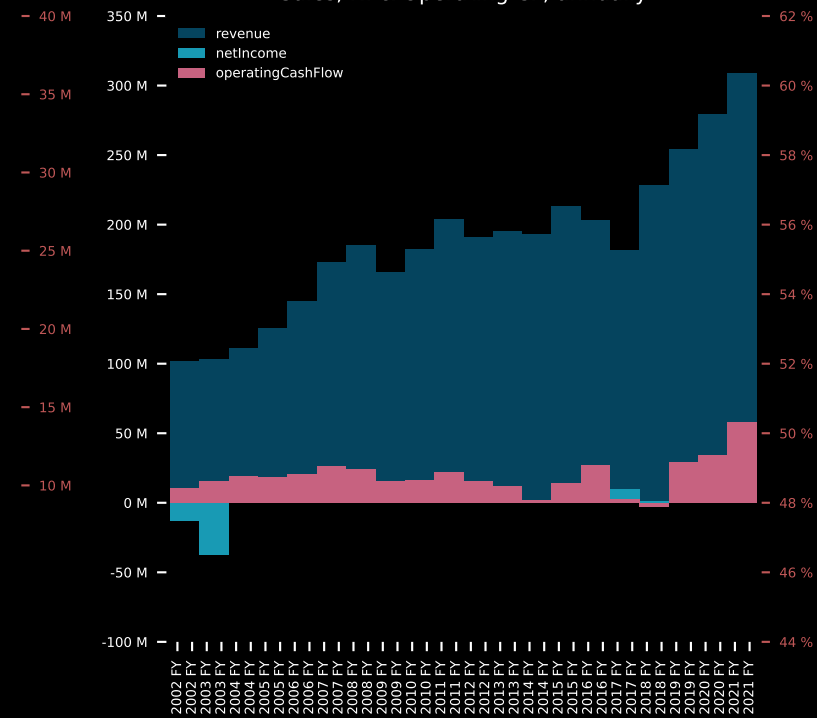
Sales, NI & Operating CF, quarterly



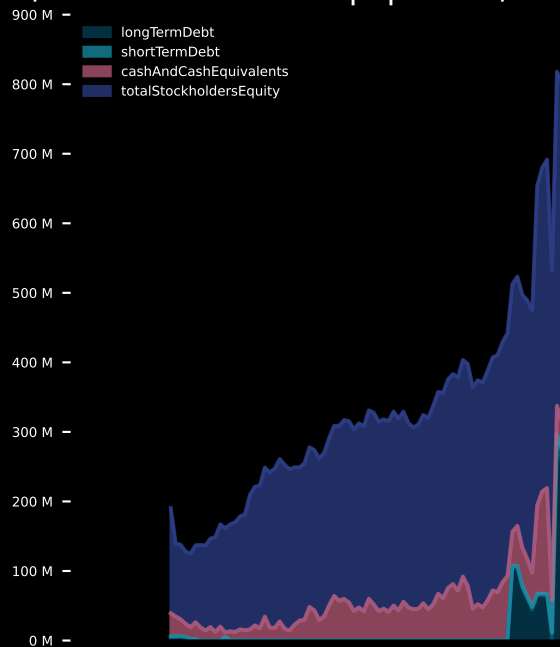
Price vs shares outstanding, quarterly



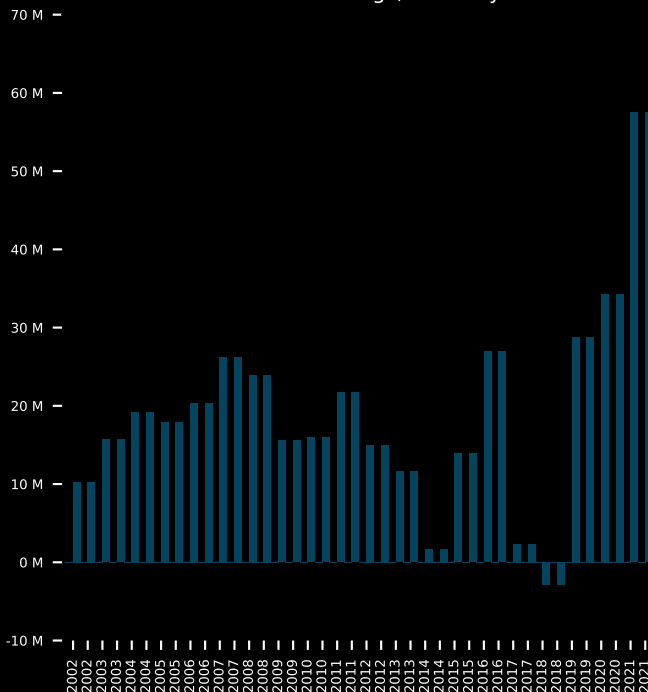
Sales, NI & Operating CF, annually



GII / Communication Equipment / US / 2022-08-23

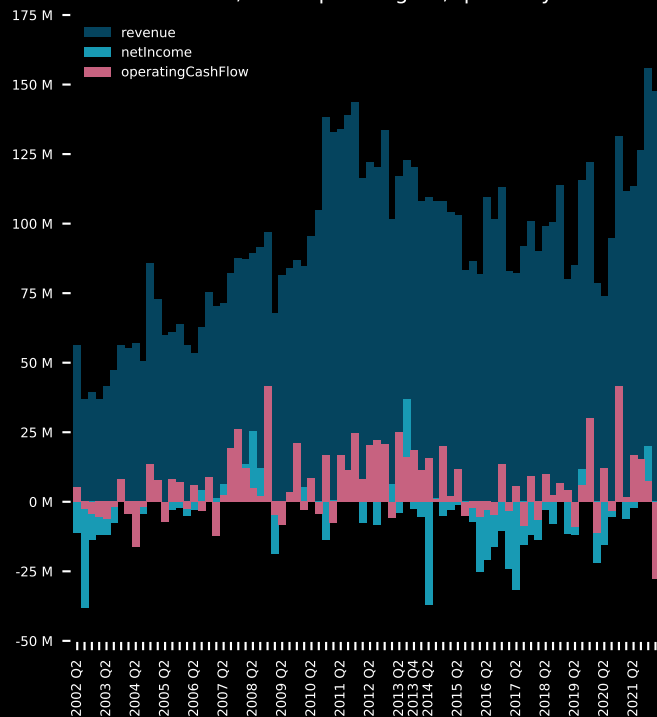


Owners Earnings, annually

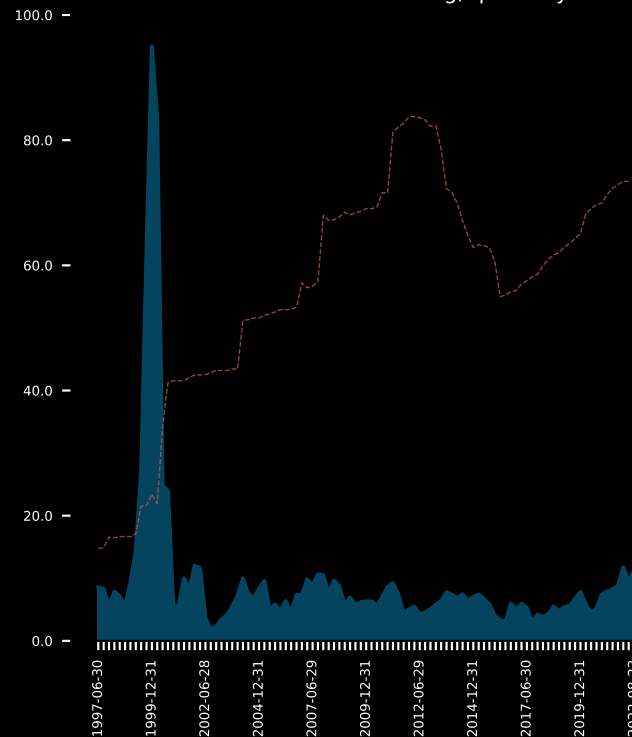


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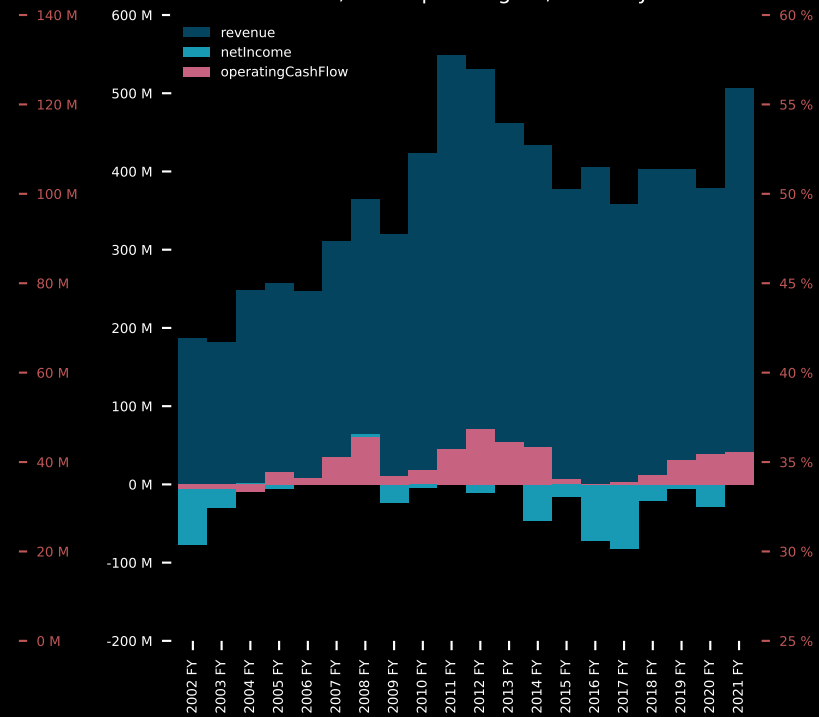
Sales, NI & Operating CF, quarterly



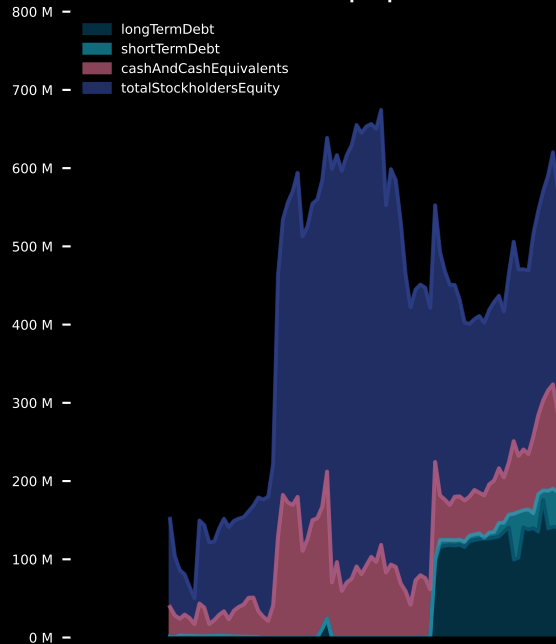
Price vs shares outstanding, quarterly



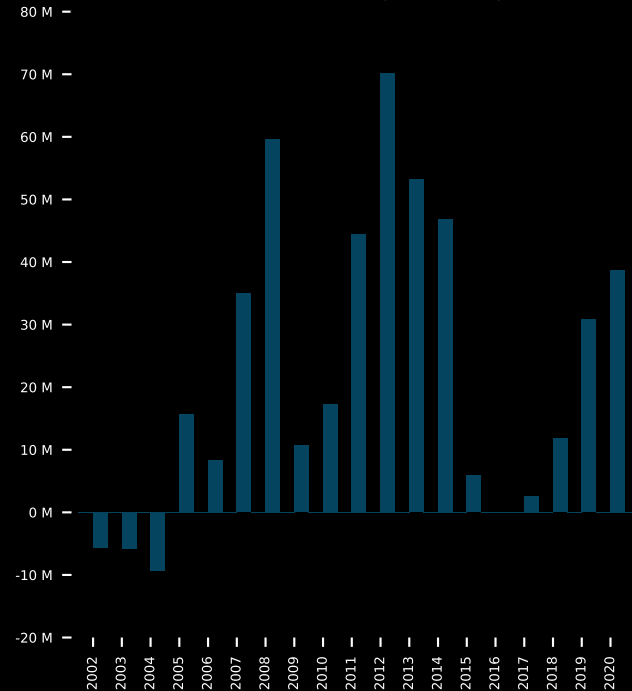
Sales, NI & Operating CF, annually



LT / Communication Equipment / US / 2022-08-23

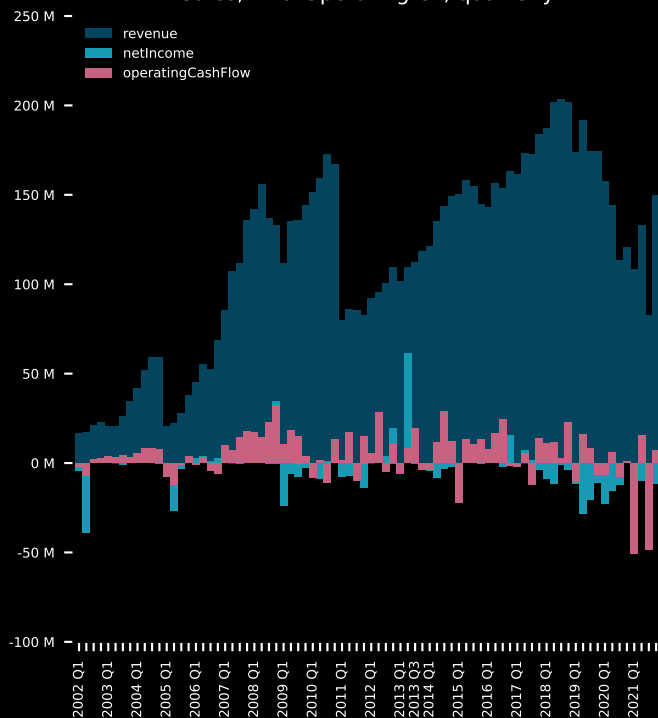


Owners Earnings, annually

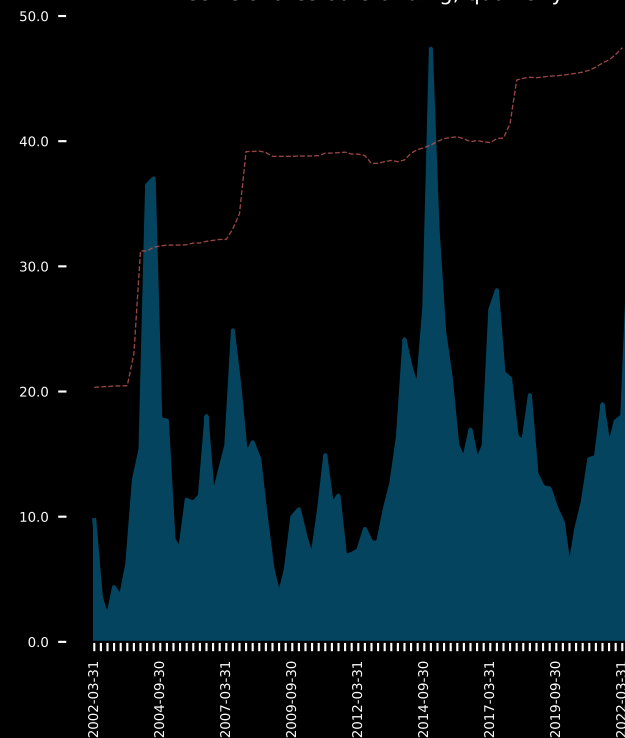


Harmonic Inc., together with its subsidiaries, provide video delivery software, products, system solutions, and services worldwide. The company operates in two segments, Video and Cable Access. The Video segment sells video processing, production, and playout solutions and services to cable operators, and satellite and telecommunications Pay-TV service providers, as well as to broadcast and media, including streaming media companies. This segment's video processing appliance solutions include network management and application software, and hardware products, such as encoders, video servers, high-density stream processing systems, and edge processors. This segment also provides software-as-a-service (SaaS) solutions, which enables the packaging and delivery of streaming services, including live streaming, video-on-demand, catch-up TV, start-over TV, network-DVR, and cloud-DVR services through HTTP streaming to various device along with dynamic and personal ad insertion. The Cable Access segment offers CableOS software-based cable access solutions; and CableOS central cloud

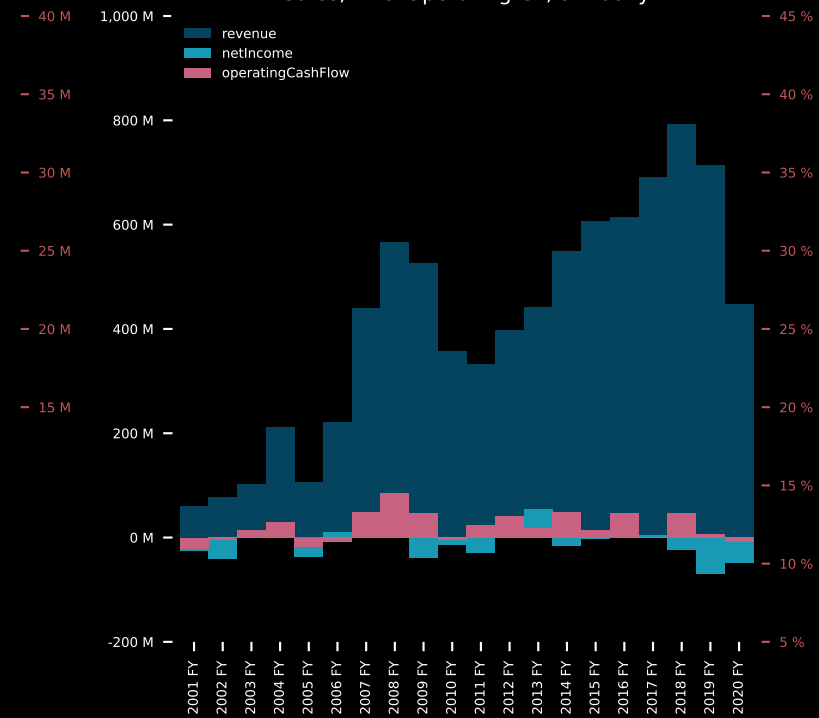
Sales, NI & Operating CF, quarterly



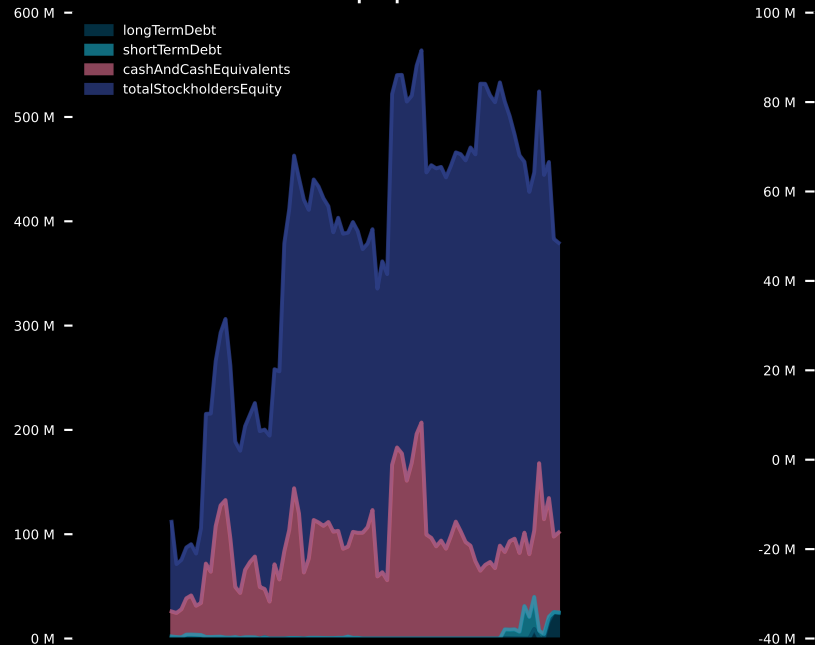
Price vs shares outstanding, quarterly



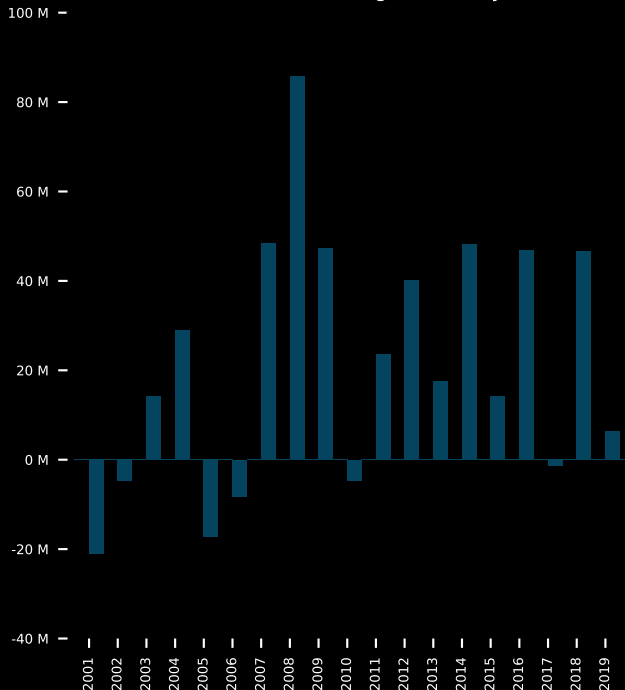
Sales, NI & Operating CF, annually



VIR / Communication Equipment / CA / 2022-08-23

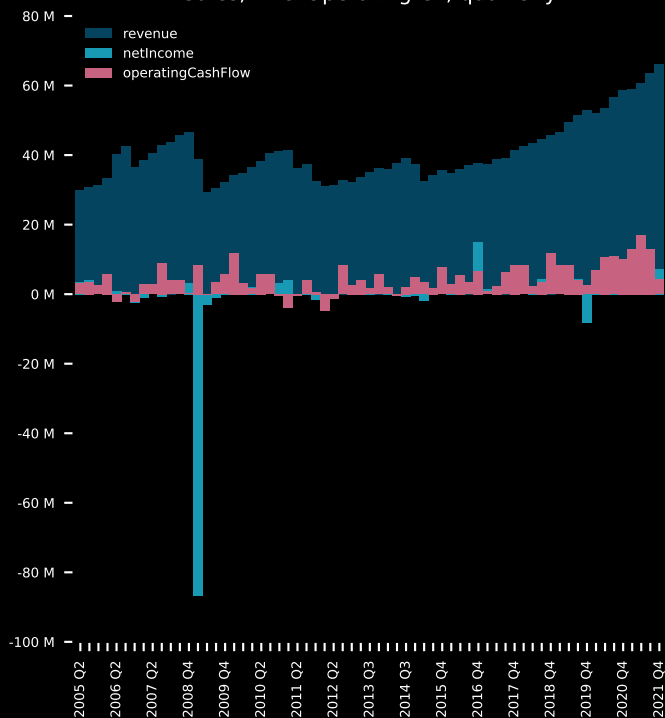


Owners Earnings, annually

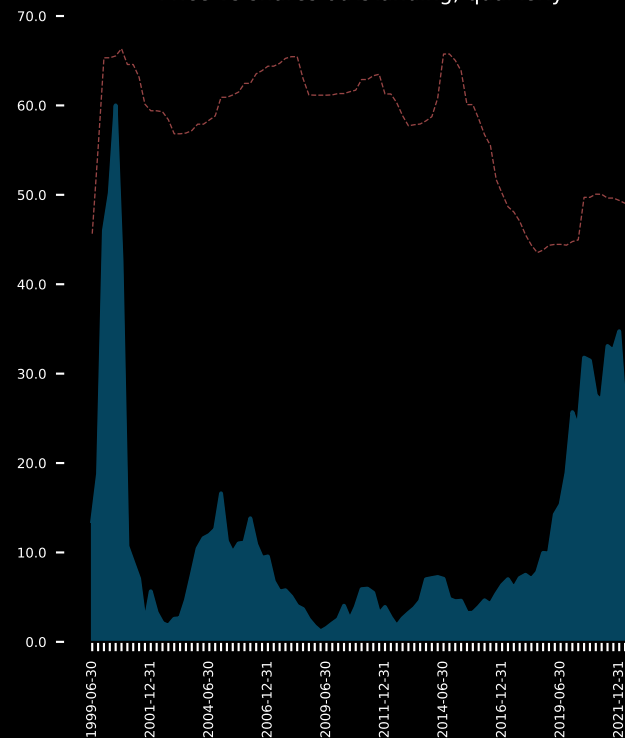


Sierra Wireless, Inc., together with its subsidiaries, provides device-to-cloud Internet of Things (IoT) solutions in the Americas, Europe, the Middle East, Africa, and the Asia Pacific. It operates in two segments, IoT Solutions and Enterprise Solutions. The IoT Solutions segment offers cellular wireless IoT modules that provides original equipment manufacturers (OEMs) with 5G, 4G LTE, third generation/second generation, low power wide area, Wi-Fi, Bluetooth, and global navigation satellite system connectivity; embedded broadband solutions, including industrial-grade modules, which offers speed, bandwidth, and network performance for connecting to 5G and 4G networks; and IoT connectivity services. The Enterprise Solutions segment provides a range of Sierra Wireless AirLink routers, IoT applications and advanced network management, managed network services, and mobility applications. This segment also offers asset, fleet, and cargo tracking services; offender and remote monitoring services; and alarm communications, as well as a cloud platform that comprises reporting and analytics. The company serves enterprises, industrial OEMs, the public sector, and the consumer market.

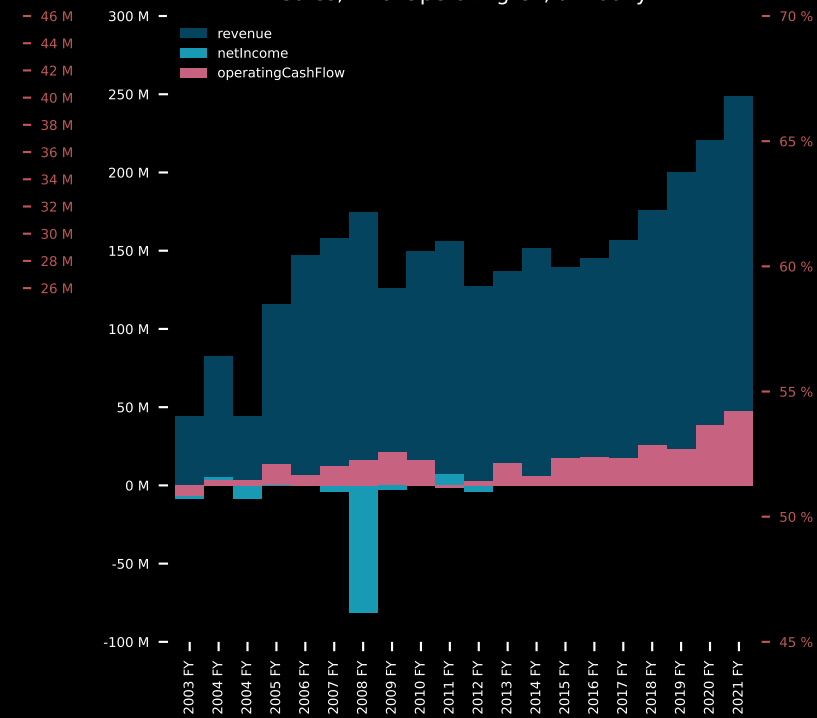
Sales, NI & Operating CF, quarterly



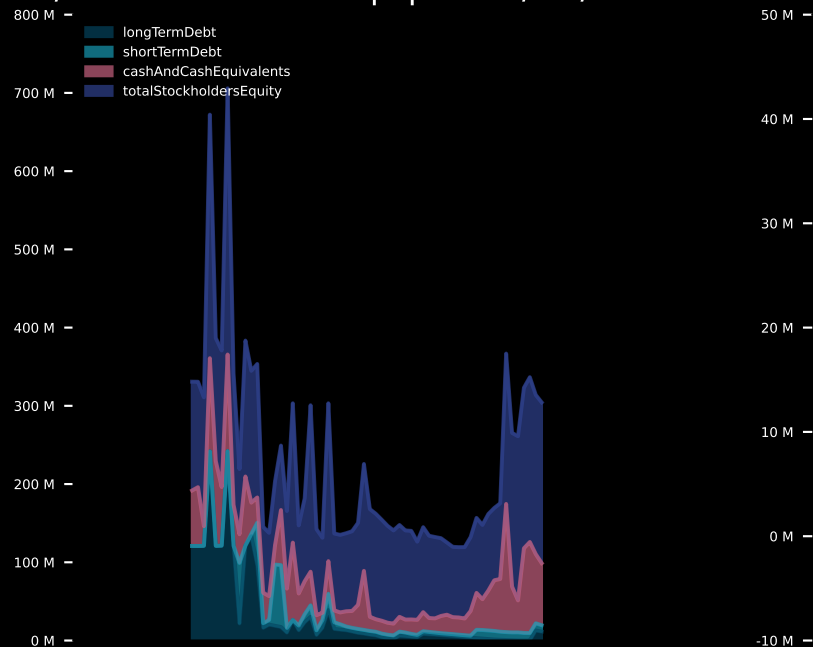
Price vs shares outstanding, quarterly



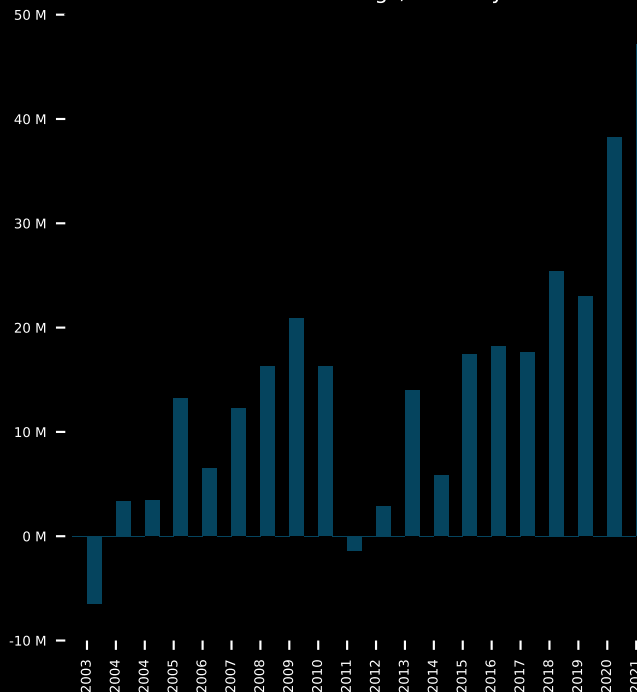
Sales, NI & Operating CF, annually



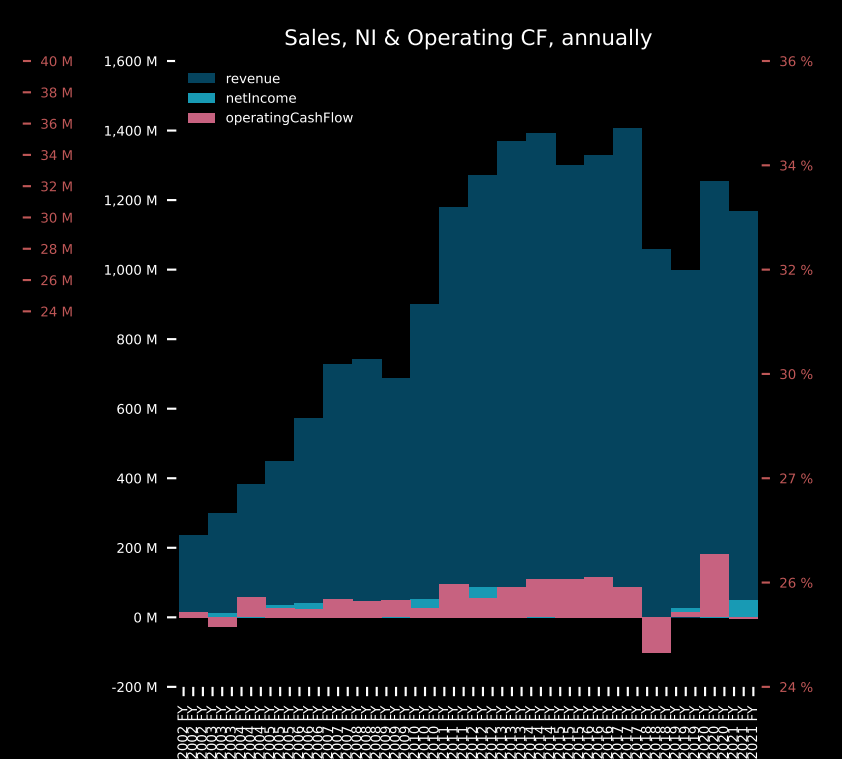
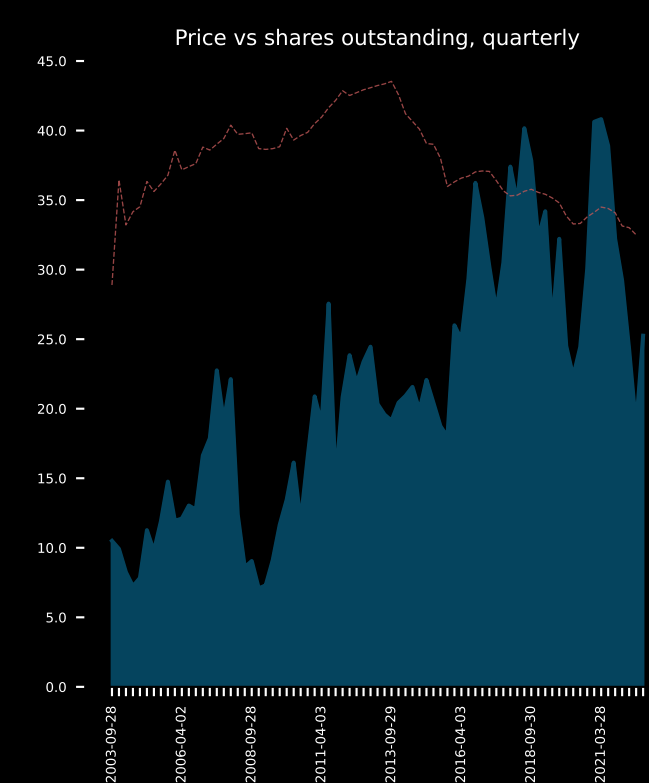
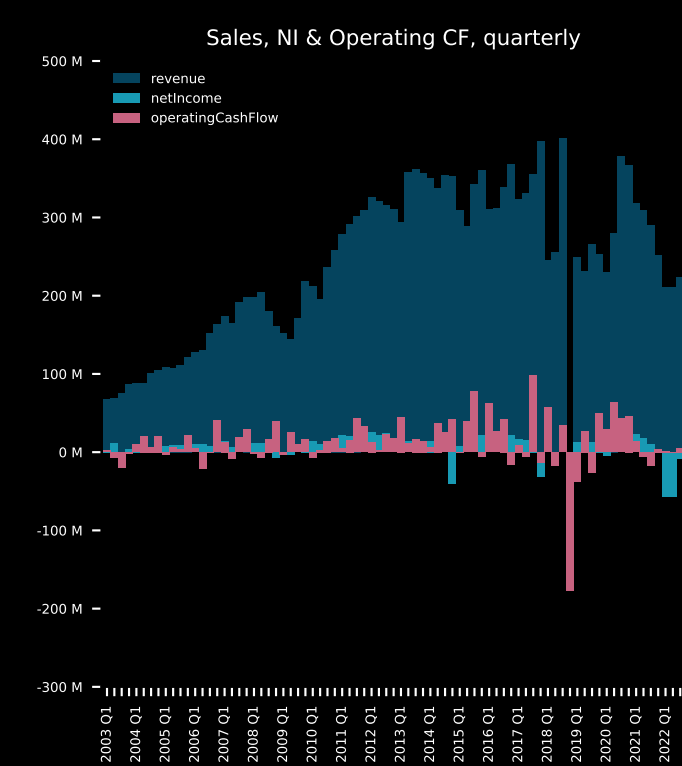
JDC / Communication Equipment / IL / 2022-08-22



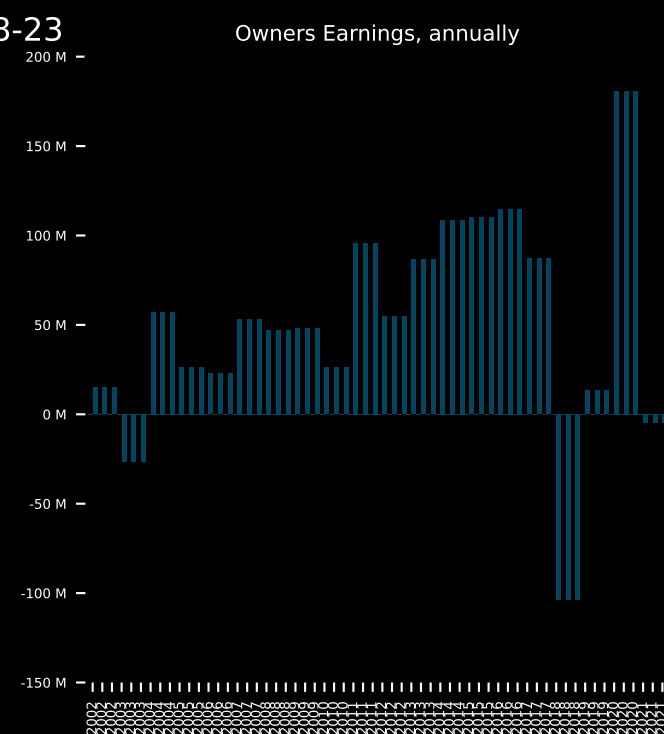
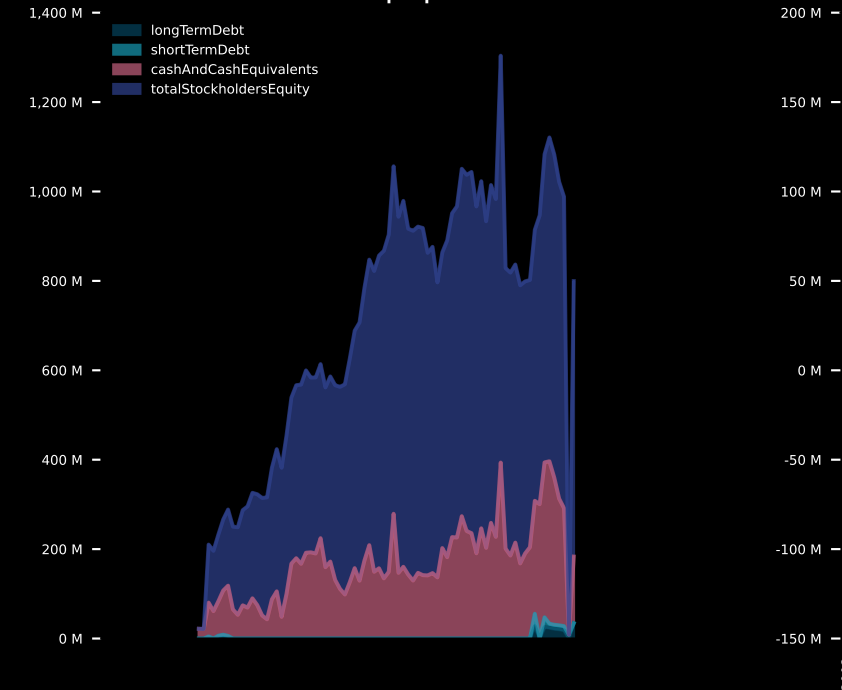
Owners Earnings, annually



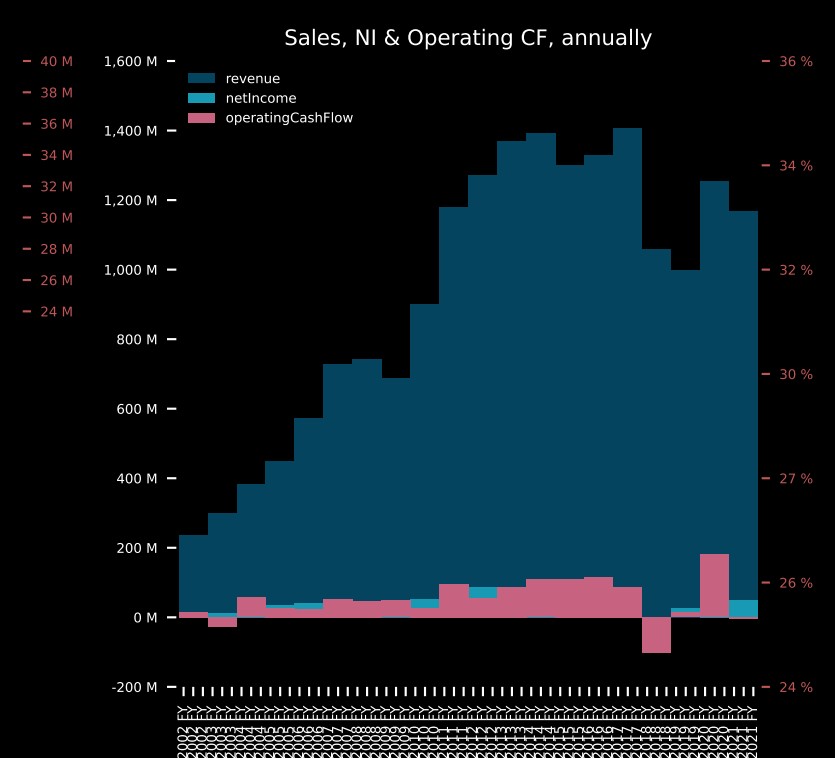
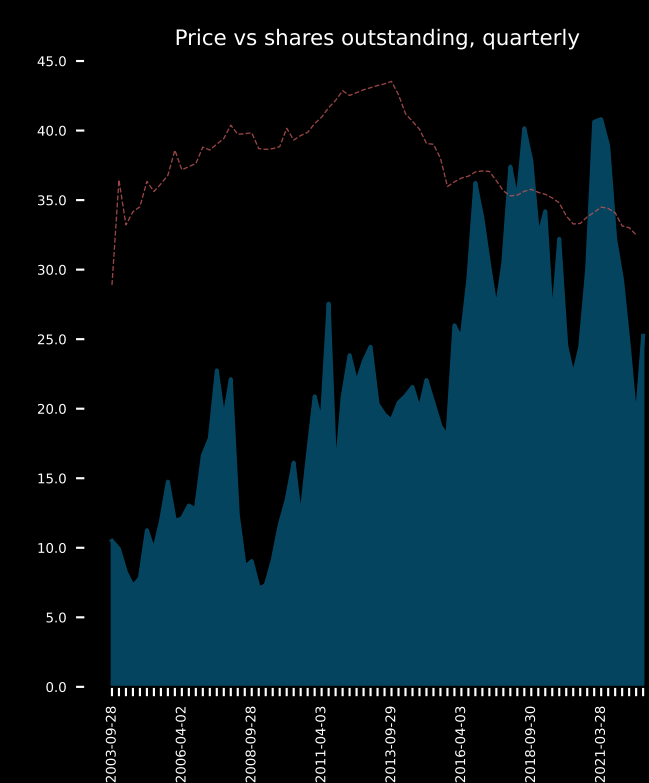
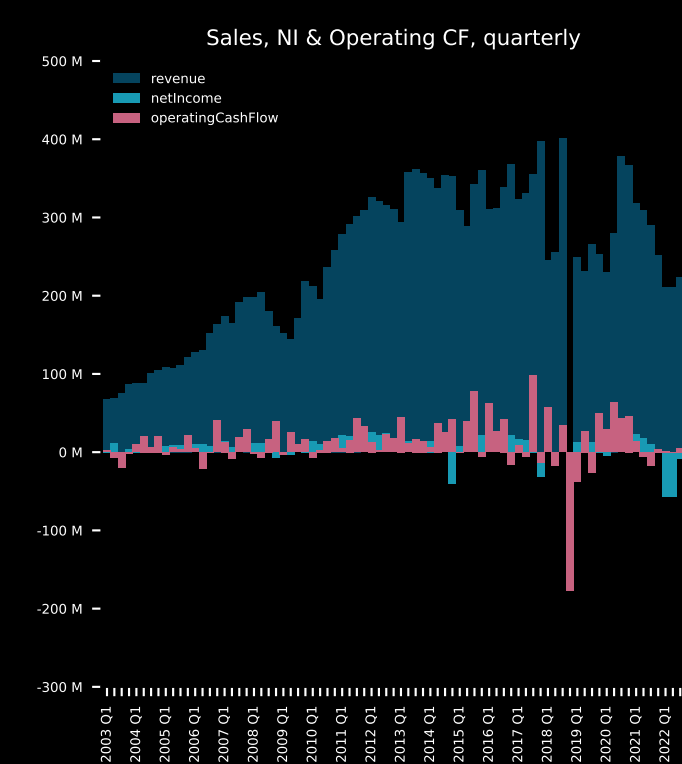
AudioCodes Ltd., together with its subsidiaries, provides advanced communications software, products, and productivity solutions for the digital workplace. It offers solutions, products, and applications for enterprise unified communications environments, work-from-home agents and contact centers, voice and telephony AI-based applications, and service provider business services. The company's products include IP phones and meeting room solutions, session border controllers (SBC), media gateways, multi-service business routers and universal customer premises equipment, VoIP network routing solutions, media servers, value added applications, life cycle management solutions, and professional services, as well as survivable branch appliances and CCE; device manager; CloudBond 365, an adaptable solution; and User Management Pack 365, a user lifecycle and identity management application. It also provides management solutions, such as voice network management solution, the One Voice Operations Center, call routing and policy management tool, and AudioCodes Routing Manager. In addition, the company offers



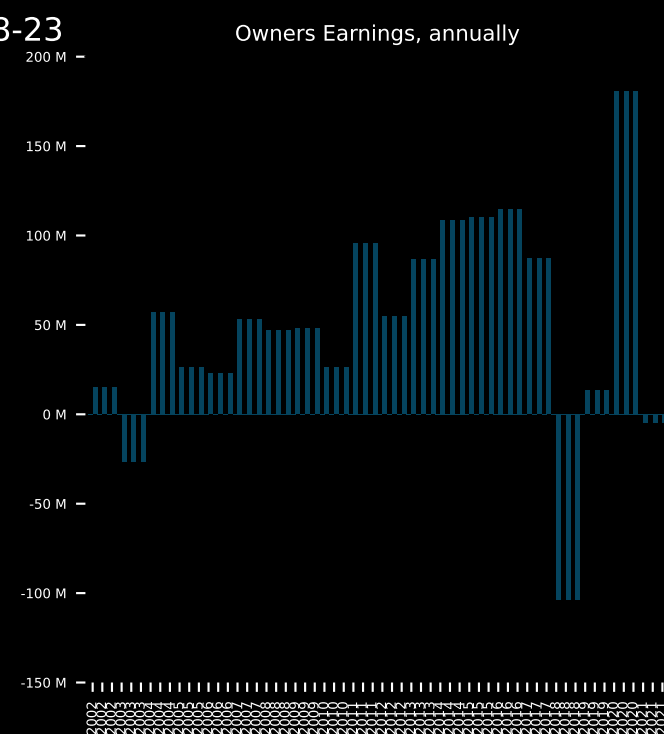
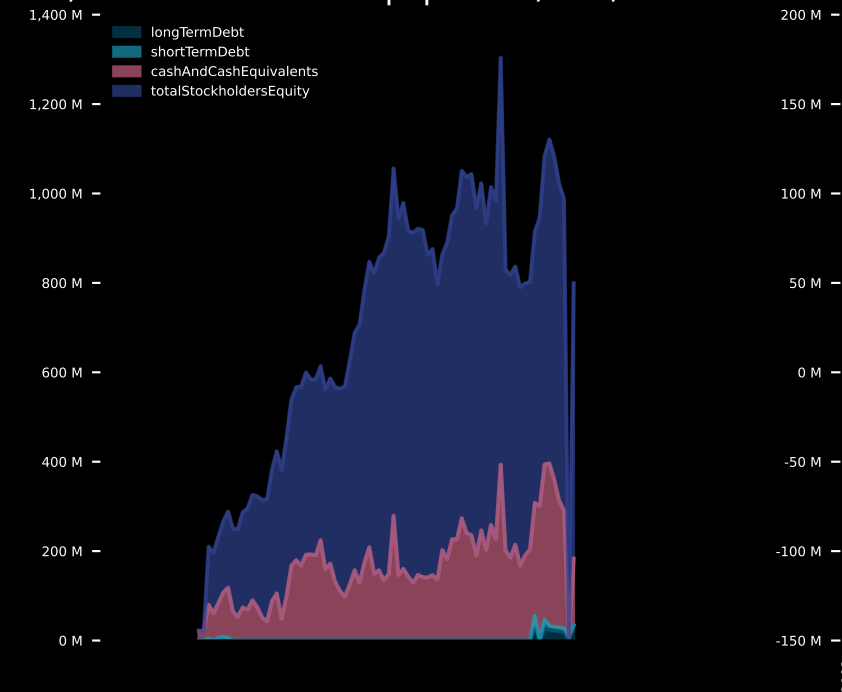
TGR / Communication Equipment / US / 2022-08-23



NETGEAR, Inc. designs, develops, and markets networking and Internet connected products for consumers, businesses, and service providers. The company operates in two segments, Connected Home, and Small and Medium Business. It offers smart home/connected home/broadband access products, such as Wi-Fi routers and home Wi-Fi systems, broadband modems, Wi-Fi gateways, Wi-Fi hotspots, Wi-Fi range extenders, Powerline adapters and bridges, Wi-Fi network adapters, and digital canvasses; and value-added service offerings, including technical support, parental controls, and cybersecurity protection. The company also provides Ethernet switches, Wi-Fi mesh systems and access points, local and remote unified storage products, and Internet security appliances for small and medium-sized businesses, as well as education, hospitality and health markets. It markets and sells its products through traditional retailers, online retailers, wholesale distributors, direct market resellers, value-added resellers, and broadband service providers, as well as through its direct online store at www.netgear.com. in the Americas, Europe, the Middle East, Africa, and Asia Pacific. The



TGR / Communication Equipment / US / 2022-08-23

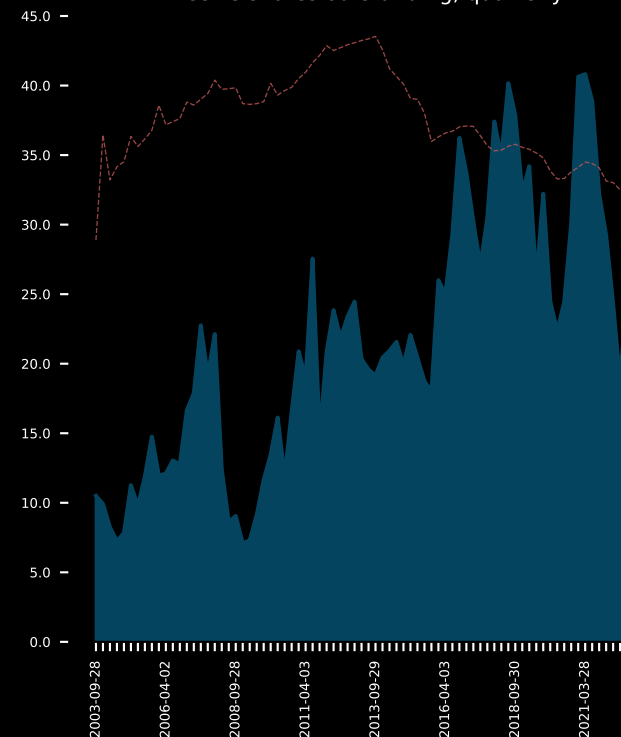


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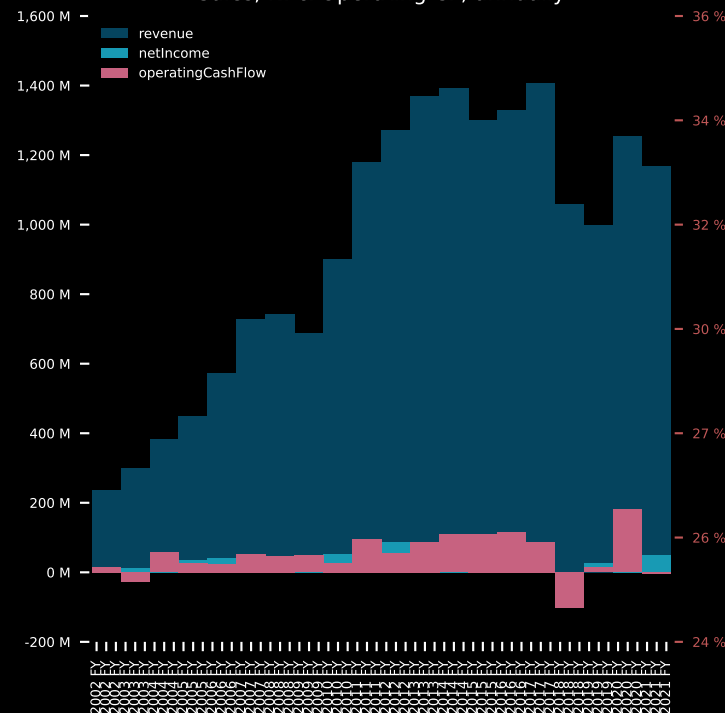
Sales, NI & Operating CF, quarterly



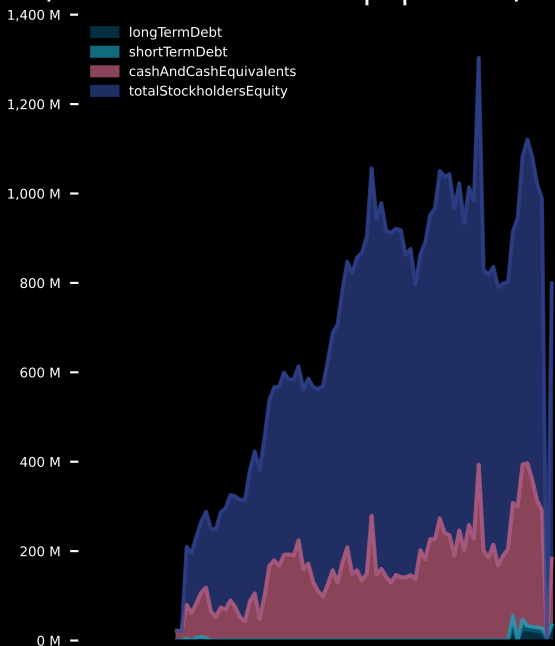
Price vs shares outstanding, quarterly



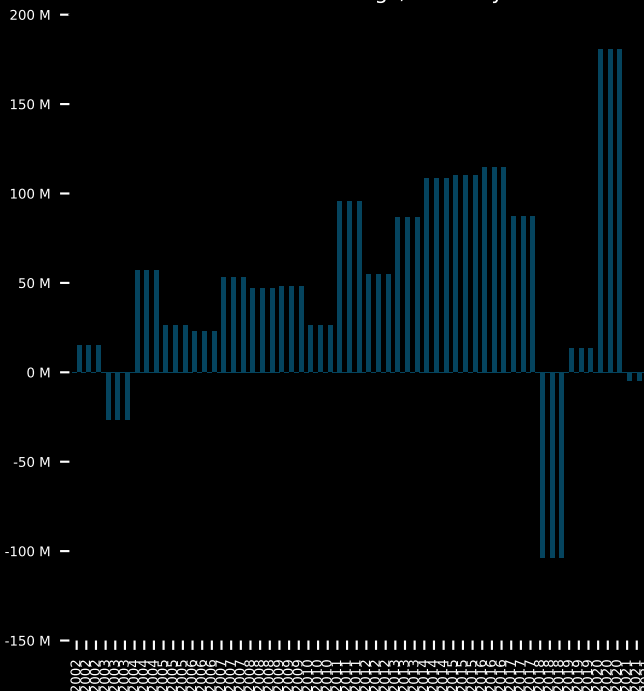
Sales, NI & Operating CF, annually



TGR / Communication Equipment / US / 2022-08-23

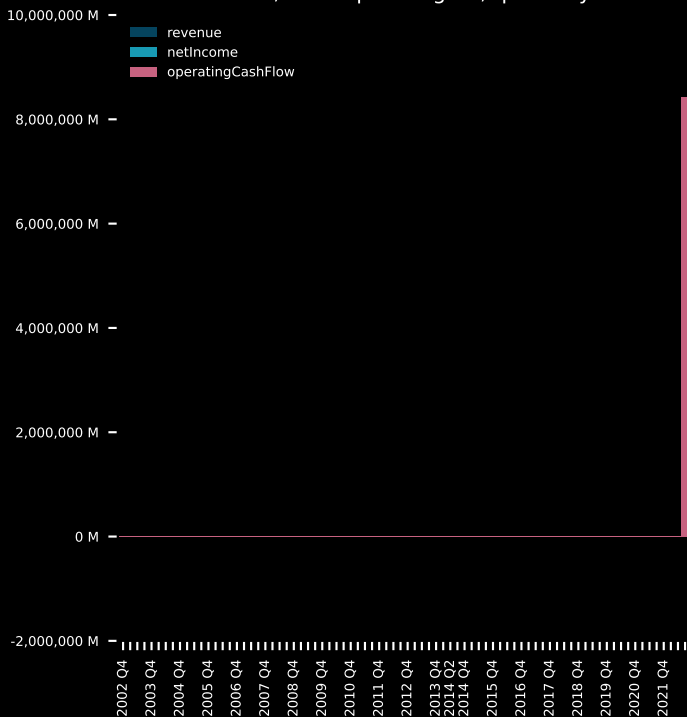


Owners Earnings, annually

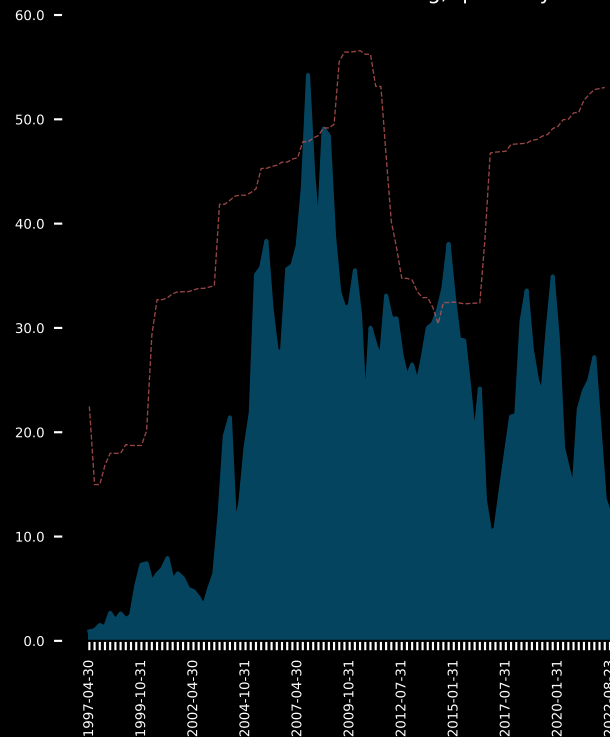


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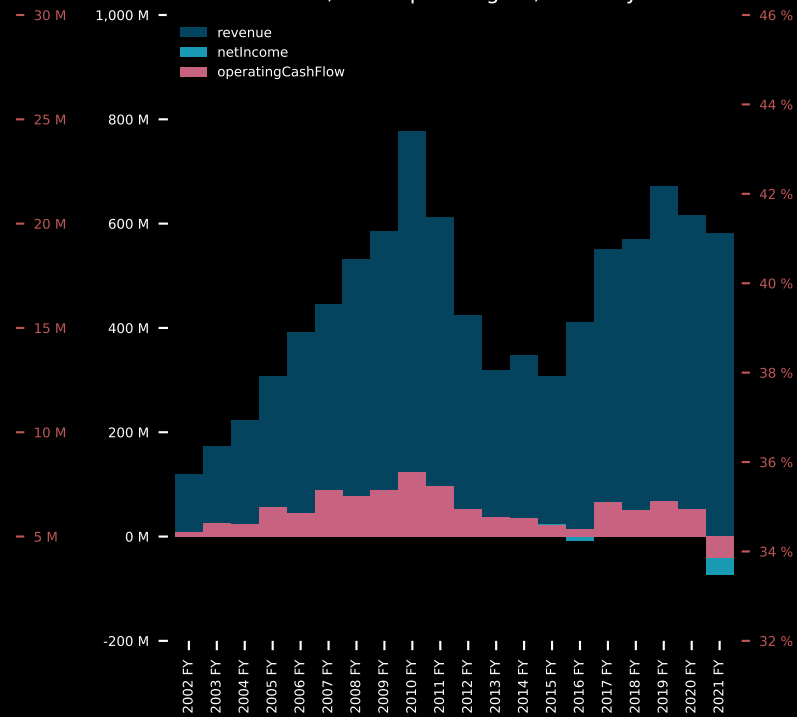
Sales, NI & Operating CF, quarterly



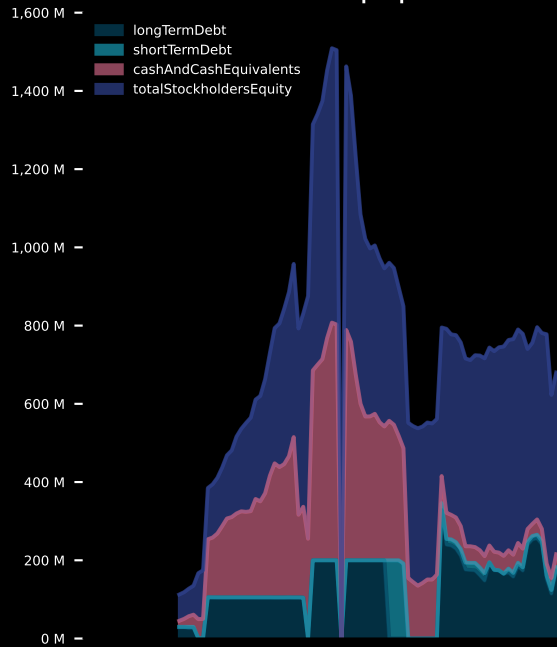
Price vs shares outstanding, quarterly



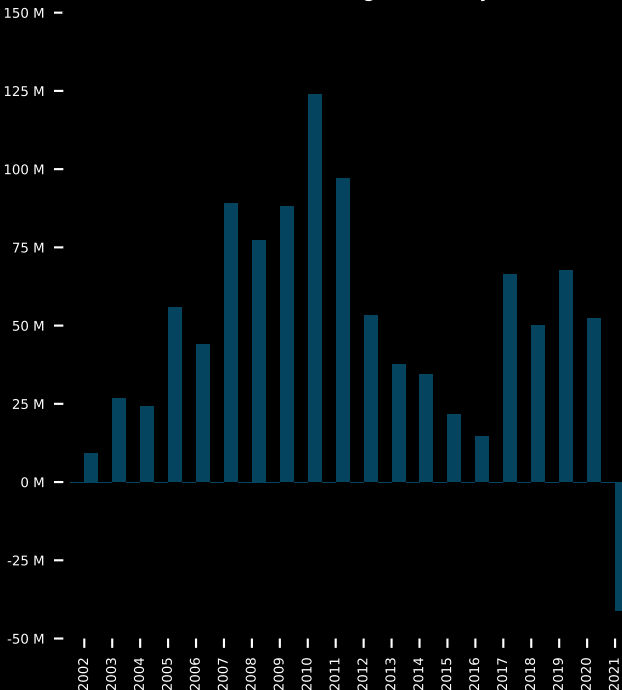
Sales, NI & Operating CF, annually



CMTL / Communication Equipment / US / 2022-08-23

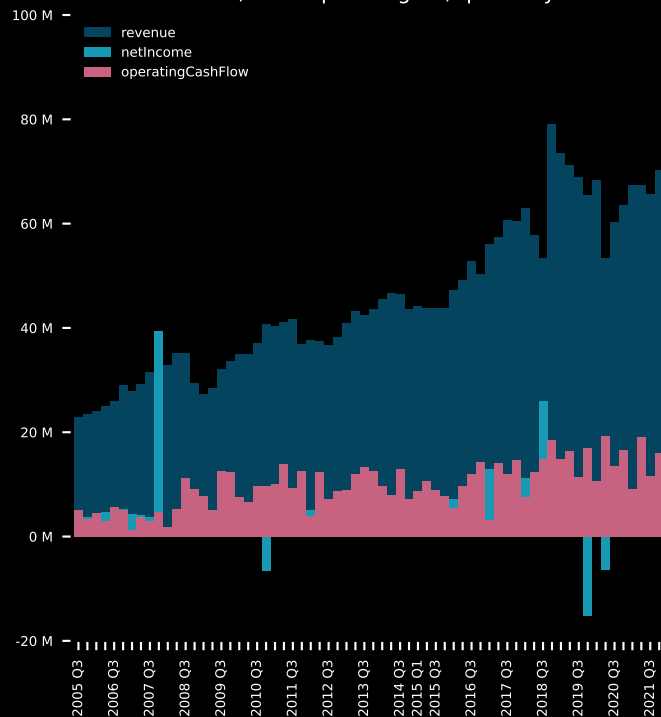


Owners Earnings, annually

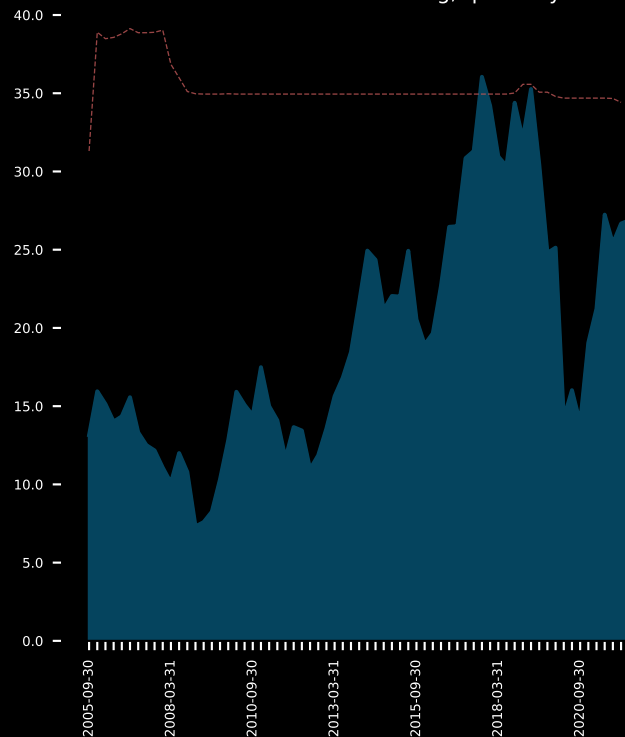


Comtech Telecommunications Corp., together with its subsidiaries, designs, develops, produces, and markets products, systems, and services for communications solutions in the United States and internationally. It operates in two segments, Commercial Solutions and Government Solutions. The Commercial Solutions segment offers satellite ground station technologies, including single channel per carrier and time division multiple access modems, amplifiers, frequency converters, and network software to modulate, demodulate, and amplify signals, as well as to carry voice, video, and/or data over networks; and public safety and location technologies, such as 911 call handling and mapping solutions that allow cellular carriers and voice over the Internet carriers to deliver emergency calls to public safety emergency call centers. The Government Solutions segment provides tactical satellite-based networks, such as satellite modems, ruggedized routers, and solid-state drives; sustainment services for the secret Internet Protocol router and non-classified Internet Protocol router access point; and small aperture terminals. This segment also offers

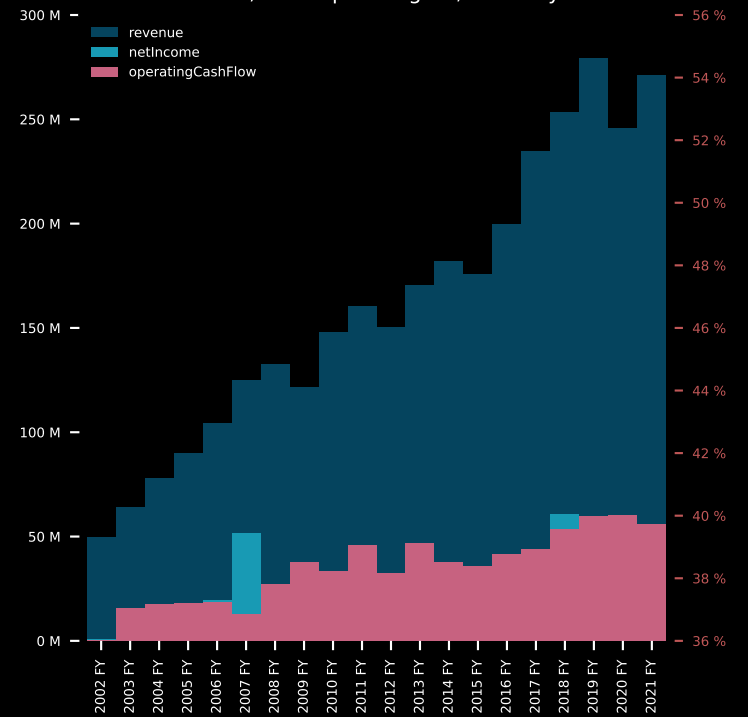
Sales, NI & Operating CF, quarterly



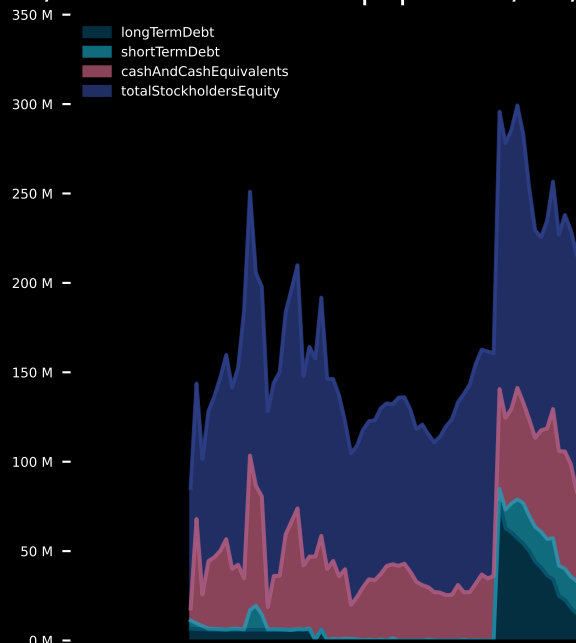
Price vs shares outstanding, quarterly



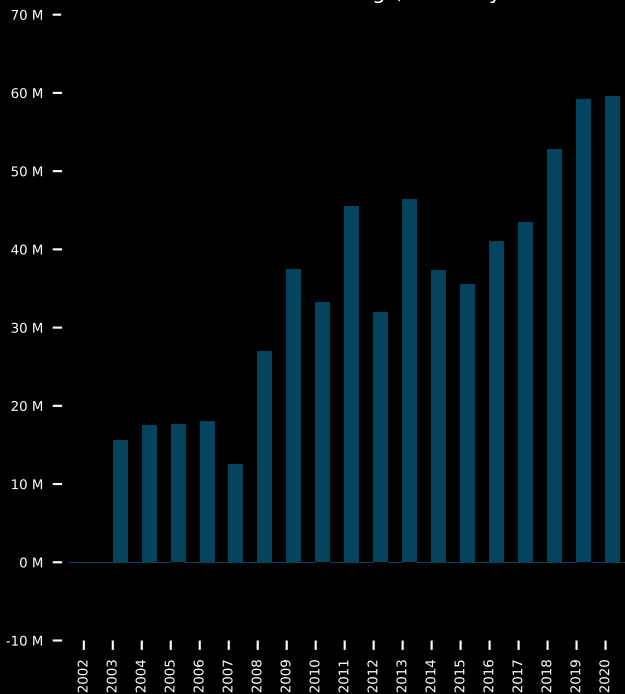
Sales, NI & Operating CF, annually



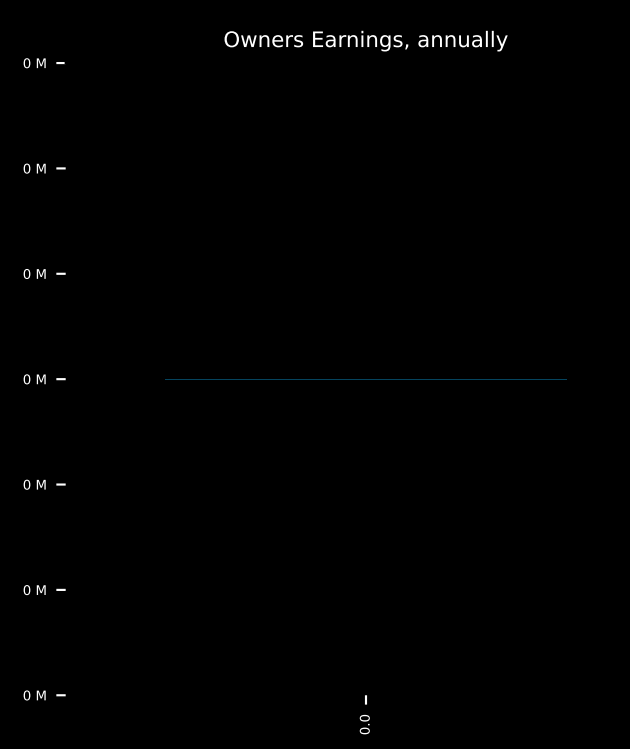
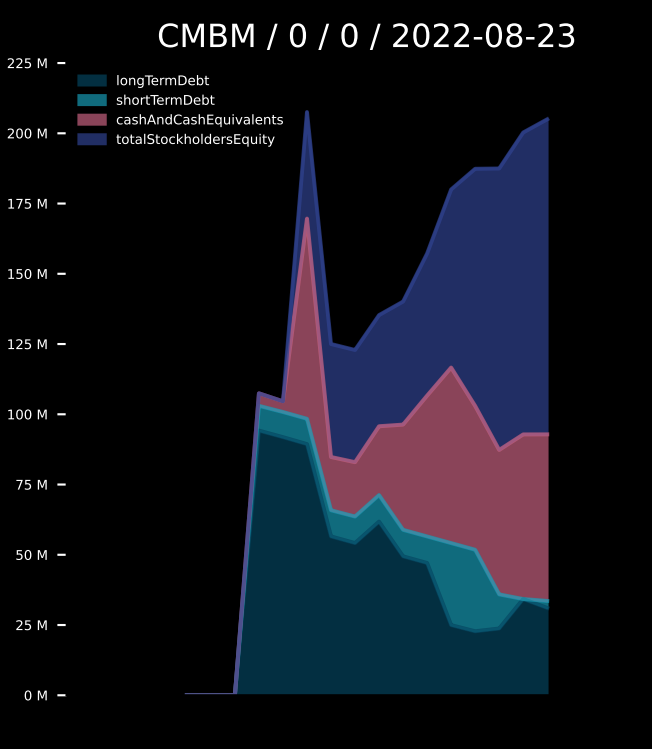
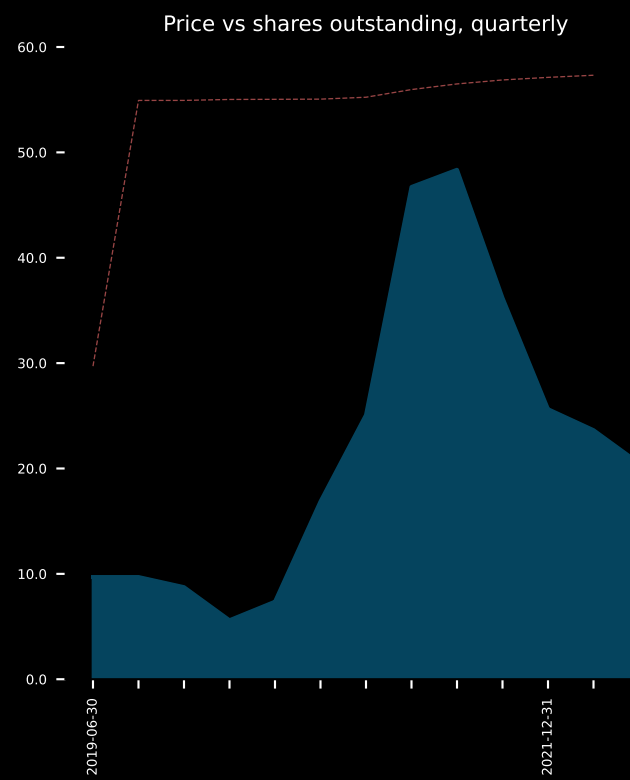
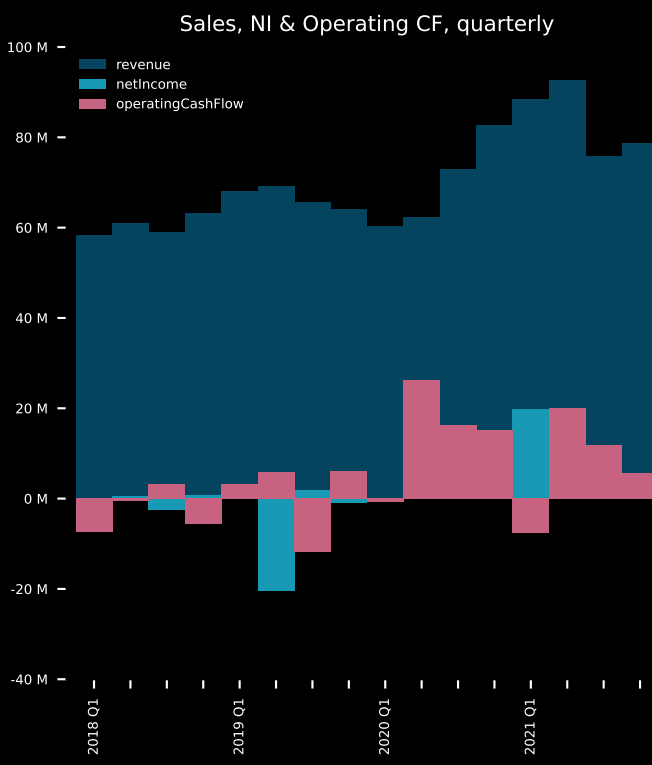
TRN / Communication Equipment / IL / 2022-08-23



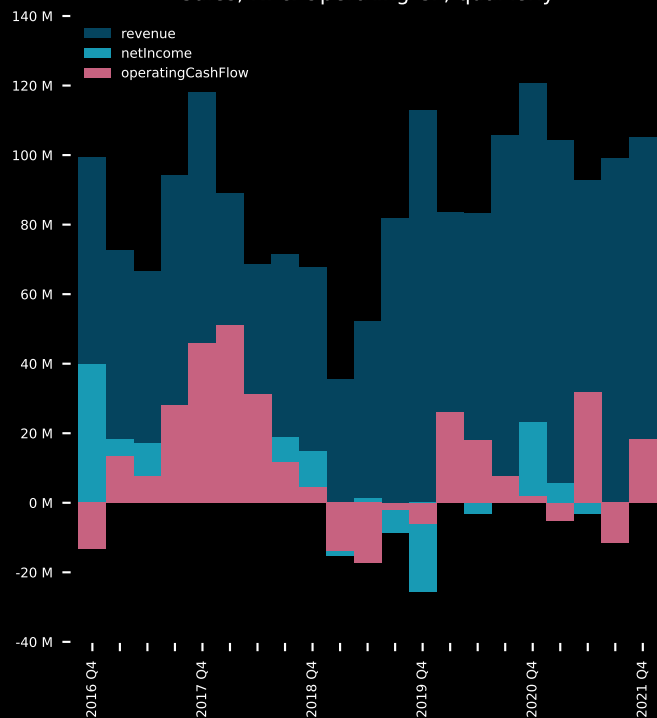
Owners Earnings, annually



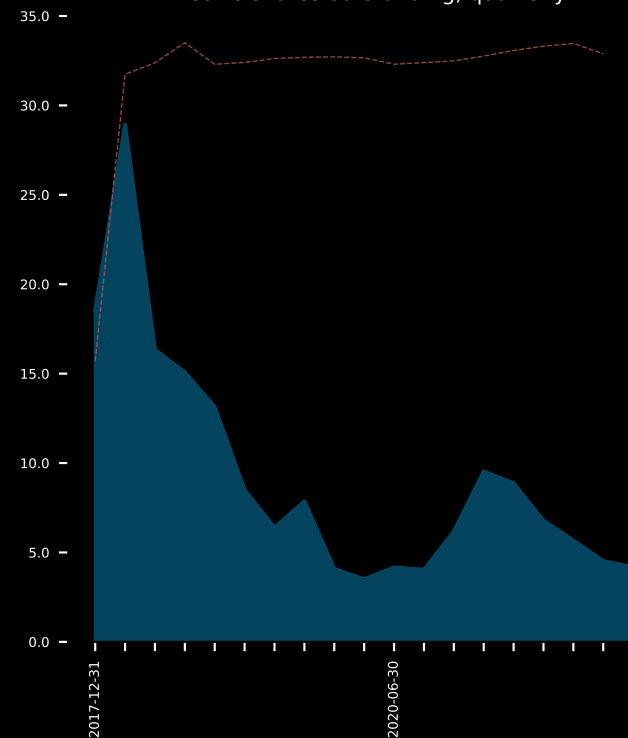
Ituran Location and Control Ltd., together with its subsidiaries, provides location-based telematics services and machine-to-machine telematics products. The company's Telematics services segment provides stolen vehicle recovery and tracking services, which locate, track, and recover stolen vehicles for its subscribers; fleet management services that enable corporate and individual customers to track and manage their vehicles in real time; and locator services that allow customers to protect valuable merchandise and equipment. It also offers on-demand navigation guidance, information, and assistance, including the provision of traffic reports and directions, as well as information on the location of gas stations, car repair shops, post offices, hospitals, and other facilities; and Connected Car, a service platform that includes a back-office application, a telematics device installed in the vehicle, mobile apps for IOS and Android users, and interface using the car infotainment screen, as well as usage based insurance and auto financing. This segment serves insurance companies and agents, car manufacturers, dealers and importers,



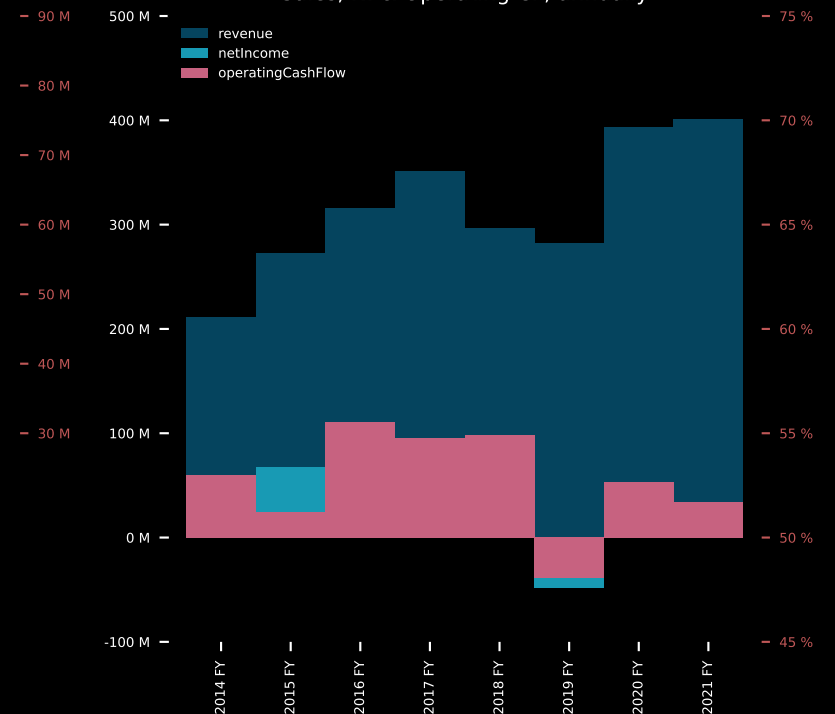
Sales, NI & Operating CF, quarterly



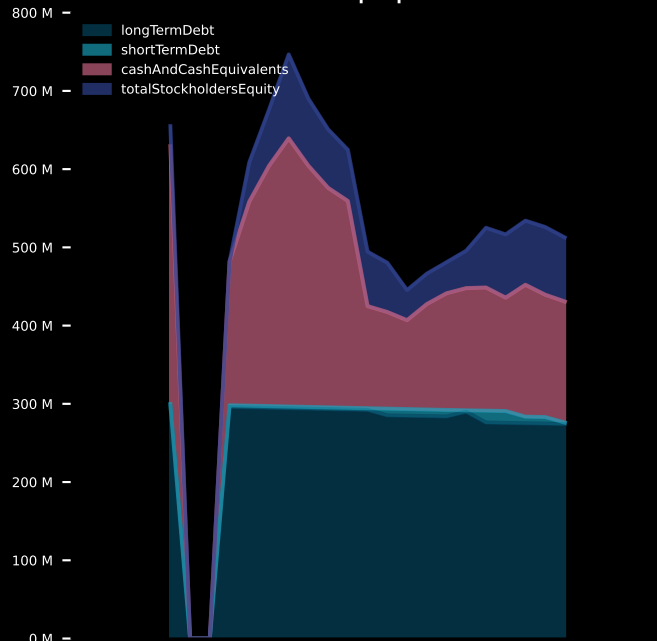
Price vs shares outstanding, quarterly



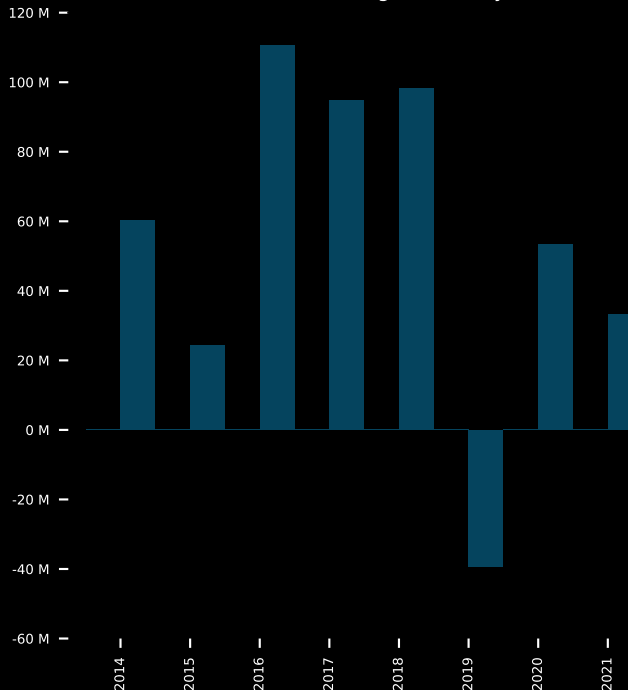
Sales, NI & Operating CF, annually



SA / Communication Equipment / US / 2022-08-23

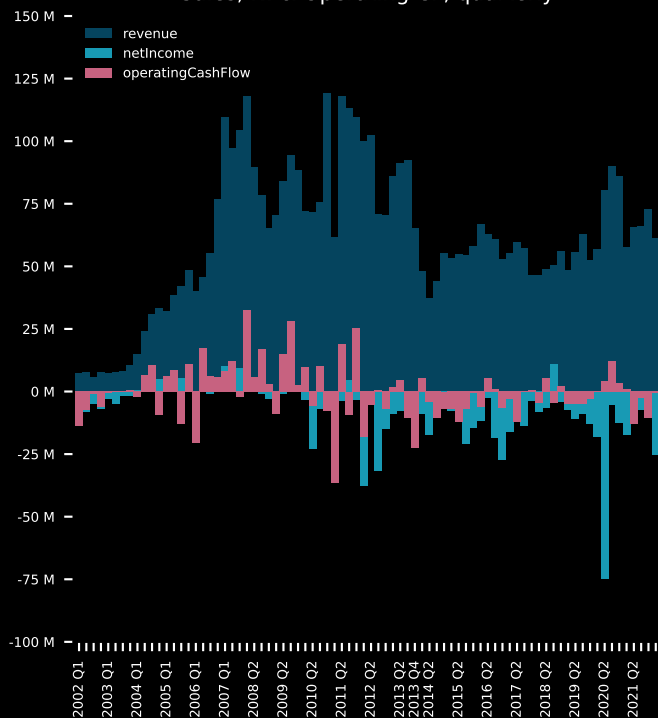


Owners Earnings, annually

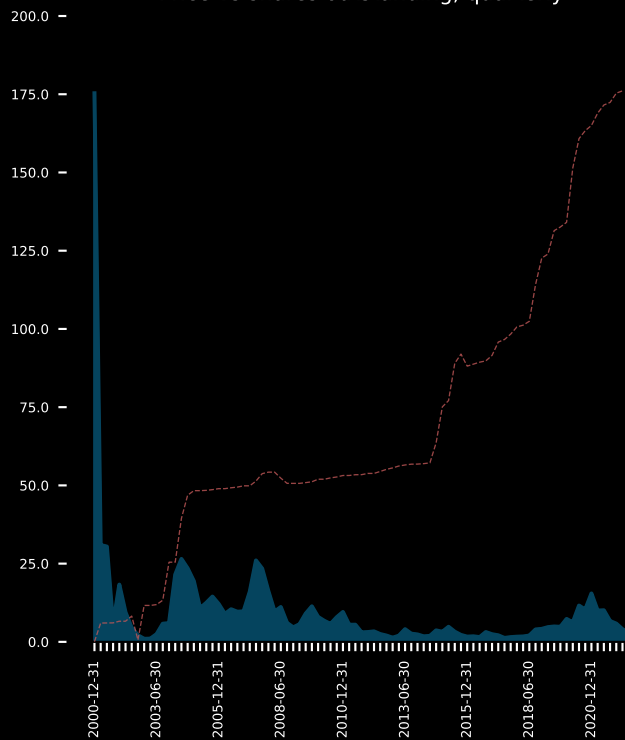


Casa Systems, Inc., a communications technology company, provides solutions for next-generation physical, virtualized, and cloud native architectures for cable broadband, fixed-line broadband, and wireless networks in North America, Latin America, the Asia-Pacific, Europe, the Middle East, and Africa. It offers converged cable access platforms; wireless network core products, such as virtual evolved packet and 5G core products, as well as small cell solutions, axiomm element management system, and fixed wireless access devices; and virtual, centralized, and distributed deployment, and bandwidth capacity expansion systems. The company also provides optical access solutions, virtualized broadband network gateway router and multiservice router, fiber extension, and residential broadband gateways; and machine-to-machine and industrial internet of things routers. The company was incorporated in 2003 and is headquartered in Andover, Massachusetts.

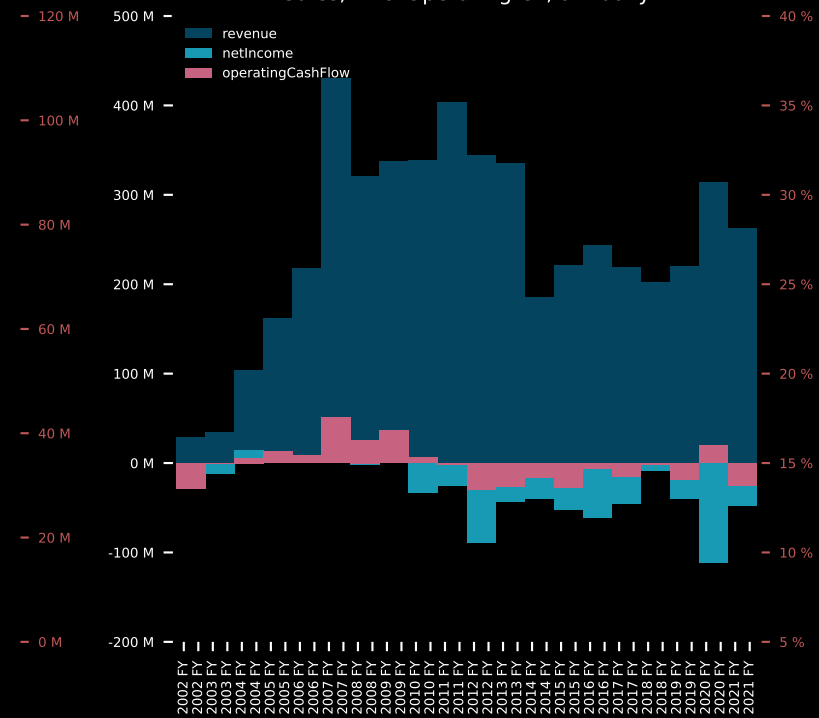
Sales, NI & Operating CF, quarterly



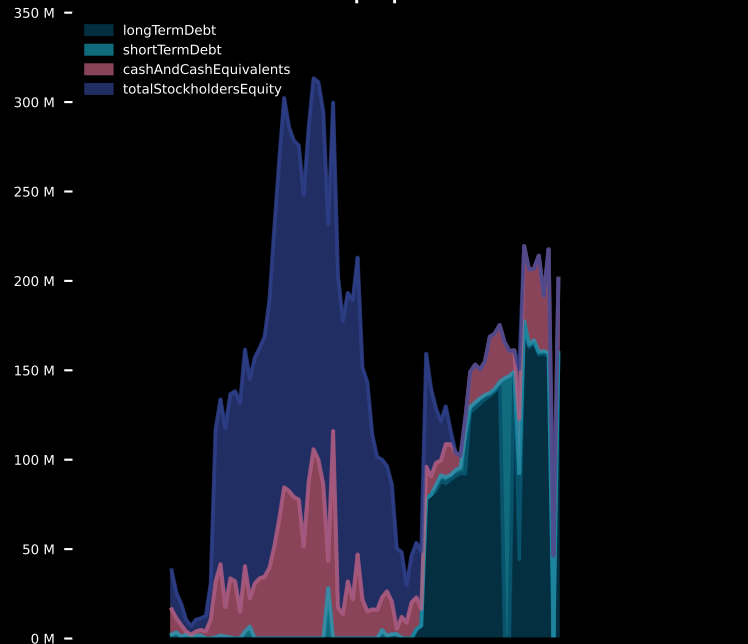
Price vs shares outstanding, quarterly



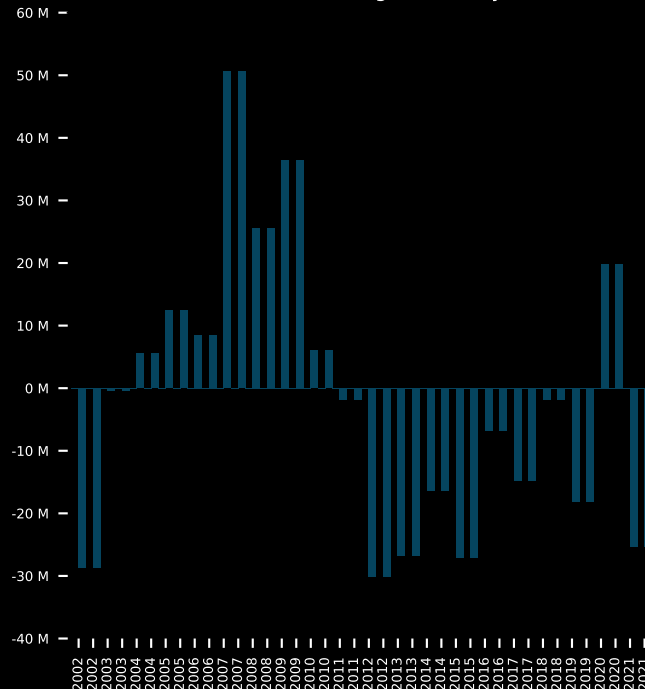
Sales, NI & Operating CF, annually



SG / Communication Equipment / US / 2022-08-23

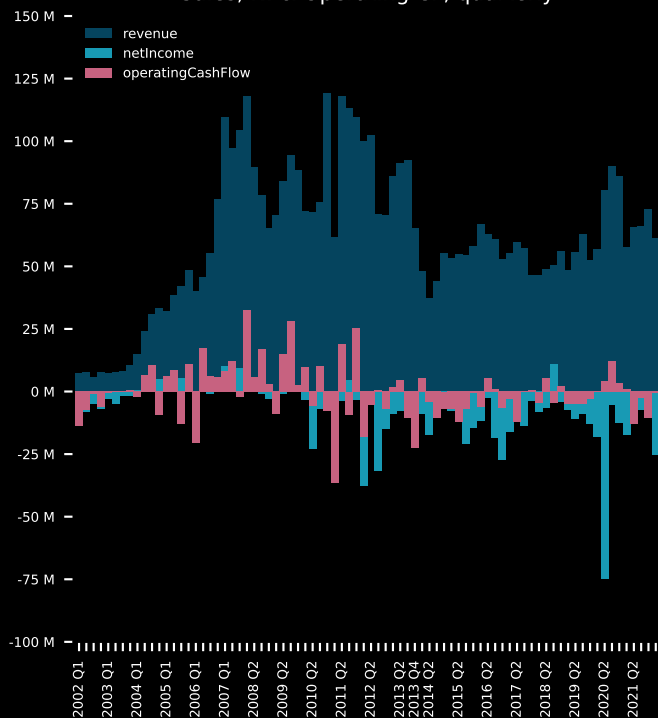


Owners Earnings, annually

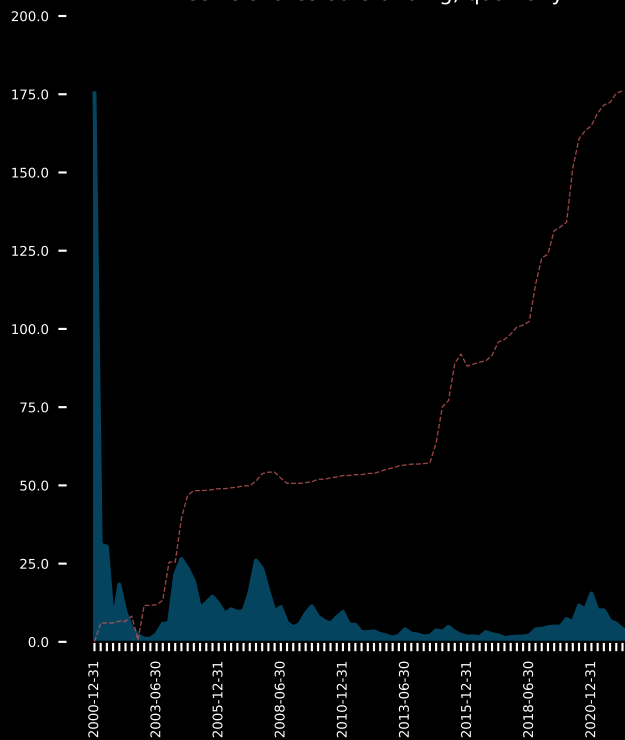


Inseego Corp. engages in the design and development of fixed and mobile wireless solutions, industrial Internet of Things (IIoT), and cloud solutions for large enterprise verticals, service providers, small and medium-sized businesses, governments, and consumers worldwide. The company provides wireless 4G and 5G hardware products, including private LTE/5G networks, First responders network authority/Firstnet, SD-WAN, telematics, remote monitoring and surveillance, and fixed wireless access and mobile broadband devices. Its products include 4G and 5G fixed wireless routers and gateways, mobile hotspots, and wireless gateways and routers for IIoT applications; and Gb speed 4G LTE hotspots and USB modems, integrated telematics, and mobile tracking hardware devices, which are supported by applications software and cloud services designed to enable customers to analyze data insights and configure/manage their hardware remotely. In addition, the company sells software-as-a-service (SaaS), software, and services solutions in various mobile and IIoT vertical markets comprising fleet management,

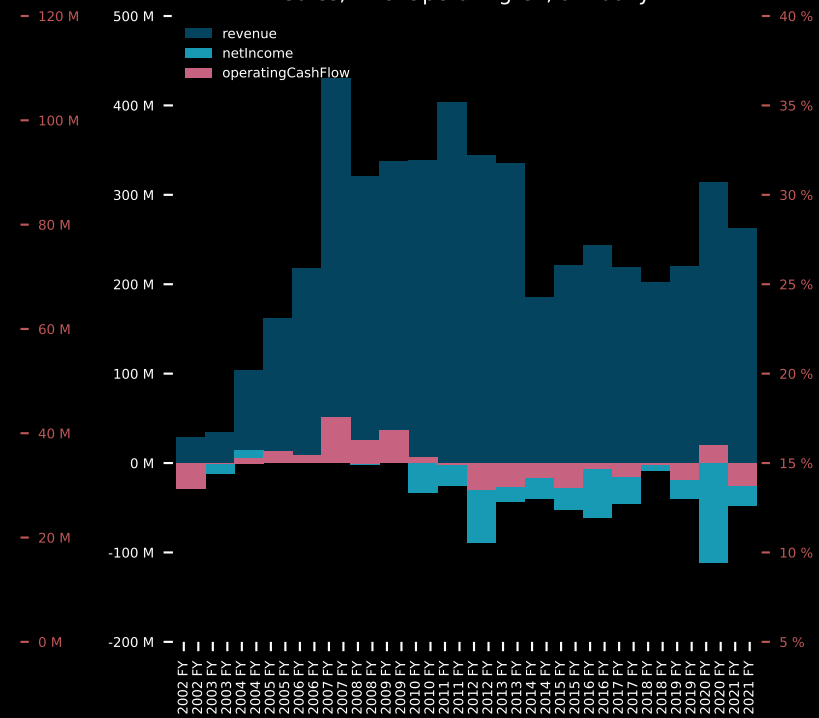
Sales, NI & Operating CF, quarterly



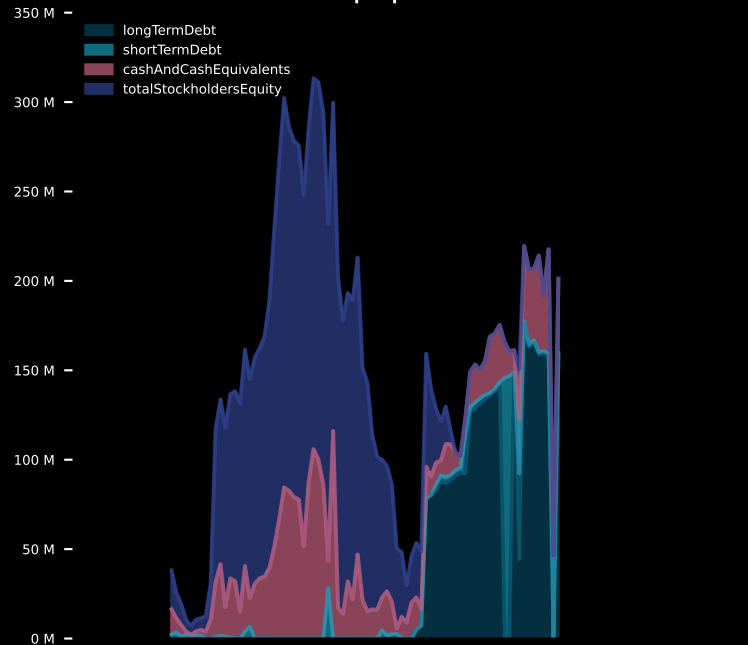
Price vs shares outstanding, quarterly



Sales, NI & Operating CF, annually



SG / Communication Equipment / US / 2022-08-23

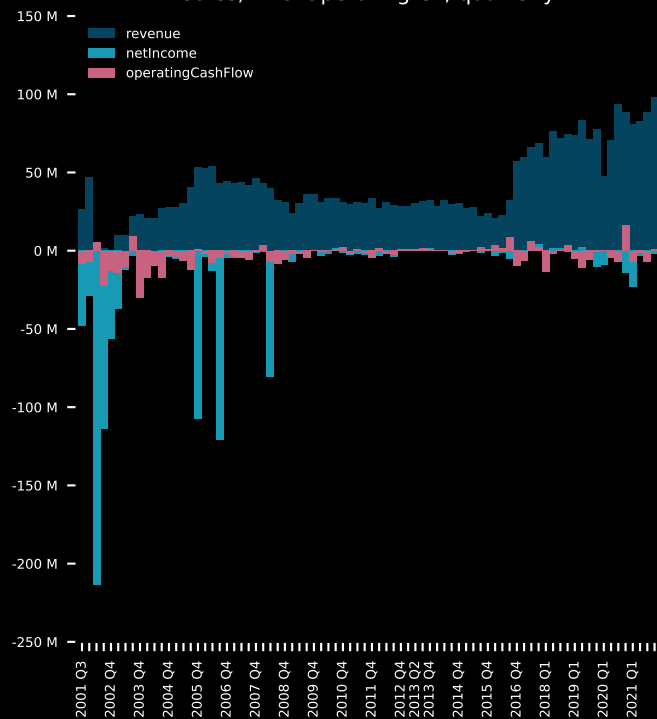


Owners Earnings, annually

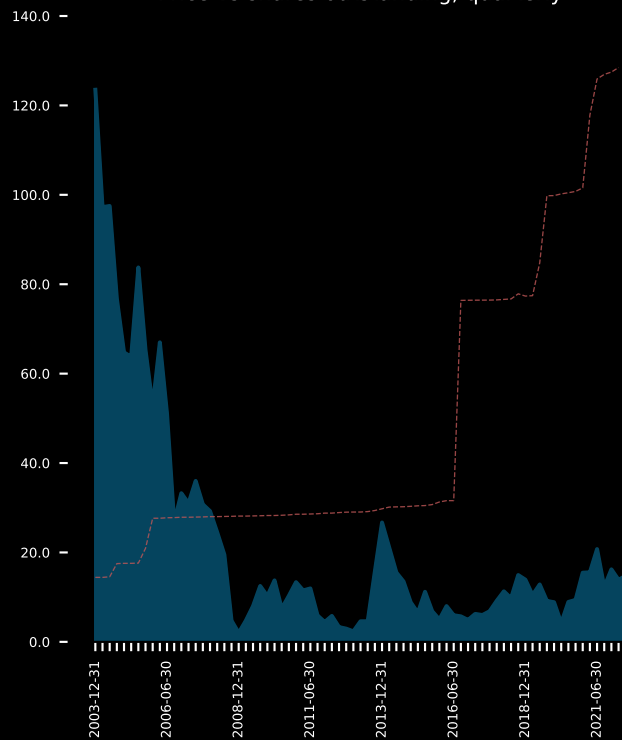


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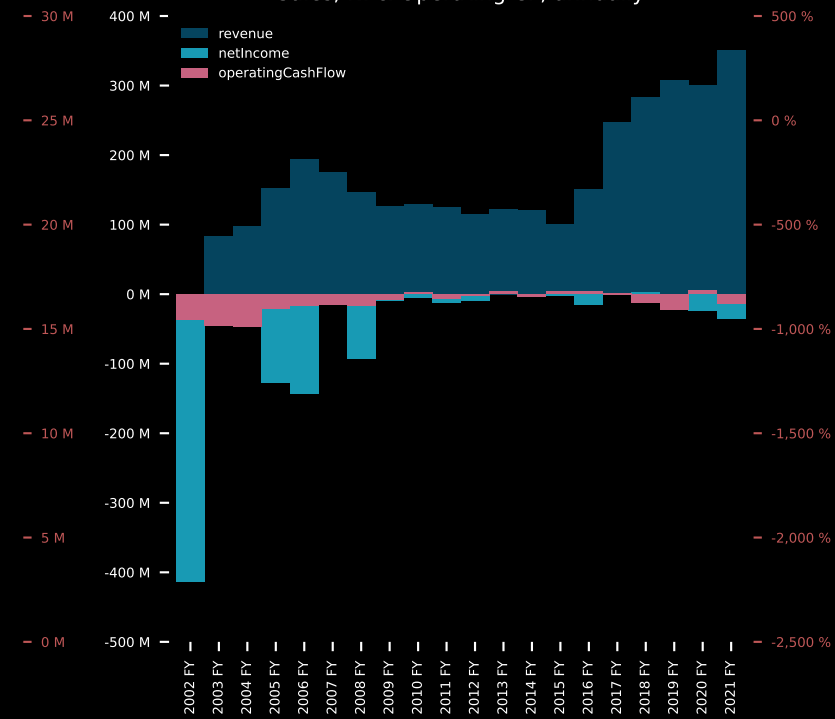
Sales, NI & Operating CF, quarterly



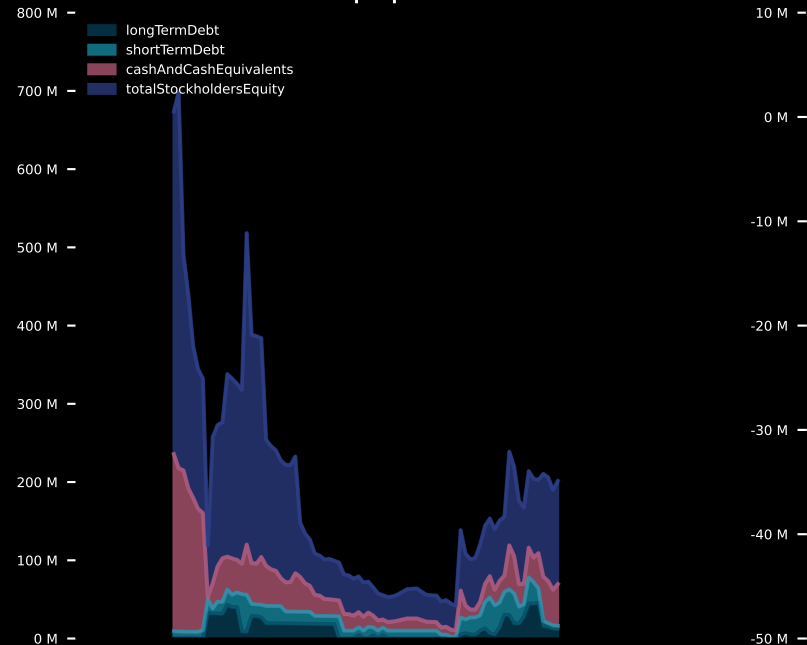
Price vs shares outstanding, quarterly



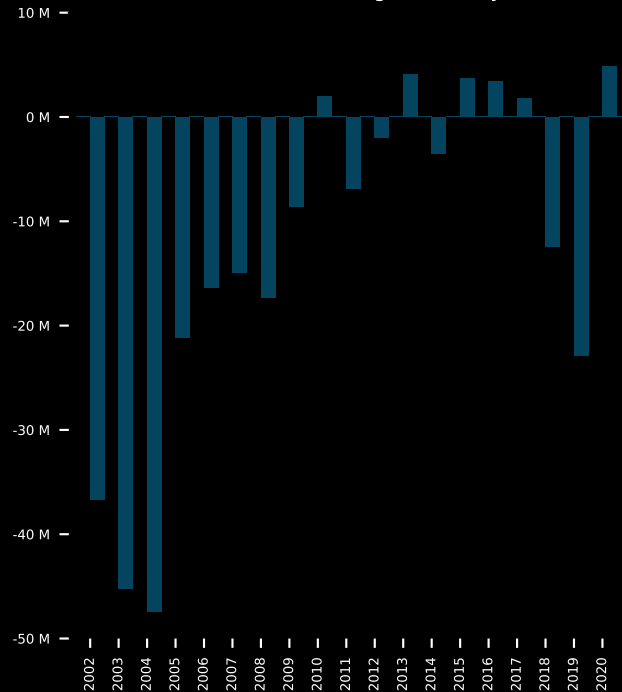
Sales, NI & Operating CF, annually



ZSI / Communication Equipment / US / 2022-08-23



Owners Earnings, annually

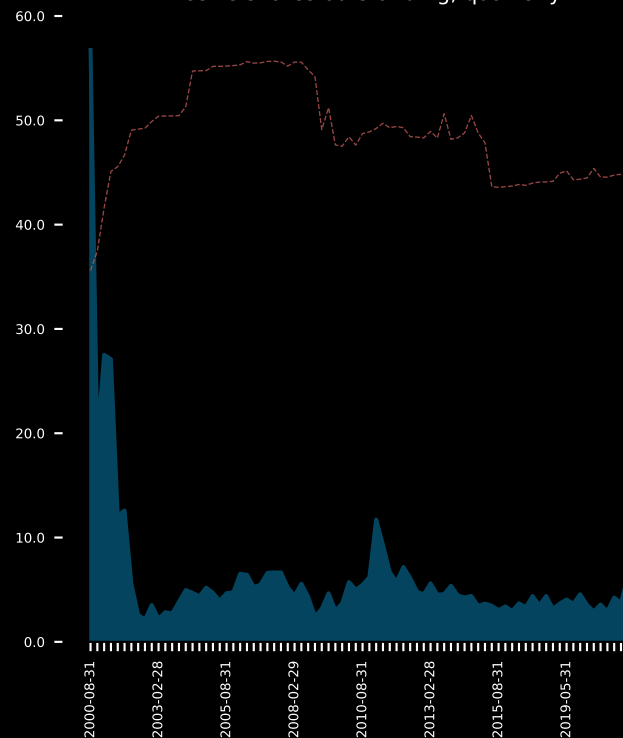


DZS Inc. provides broadband network access solutions and communications platforms in the Americas, Europe, the Middle East, Africa, and Asia. It offers broadband connectivity solutions through DZS Velocity, including voice, high-definition and ultra-high-definition video, highspeed internet access, and business class services; switching and routing products; and Xcelerate for increasing the velocity with which service providers can leap to multi-gigabit services. The company also provides connected home and business solutions through DZS Helix comprising smart gateway platforms for fiber to the x (FTTx) deployment; and connected premises products, consisting of indoor/outdoor optical network terminal gateways. In addition, it offers mobile and optical edge solutions through DZS Chronos, which provides solutions for mobile operators that enables them to upgrade their mobile fronthaul/midhaul/backhaul systems and migrate to fifth generation wireless technologies. Further, the company provides cloud software solutions through DZS Cloud that offers a commercial, carrier-grade network-slicing enabled orchestration platform, which supports open RAN and 4G/5G technologies. The company also provides cloud software solutions through DZS Cloud that offers a commercial, carrier-grade network-slicing enabled orchestration platform, which supports open RAN and 4G/5G technologies.

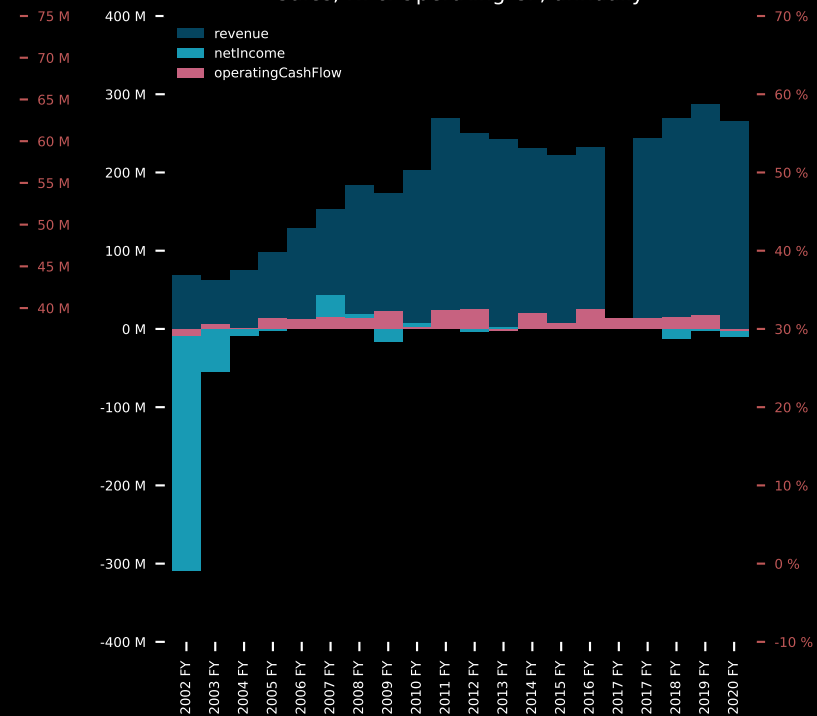
Sales, NI & Operating CF, quarterly



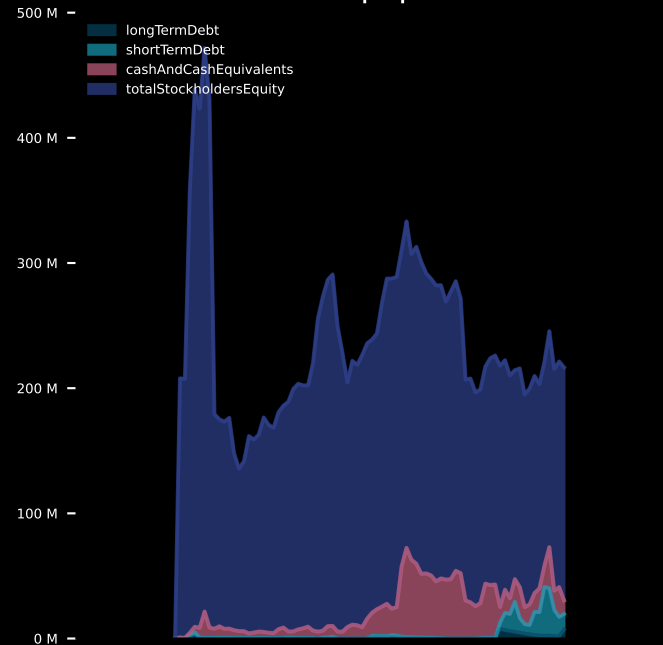
Price vs shares outstanding, quarterly



Sales, NI & Operating CF, annually



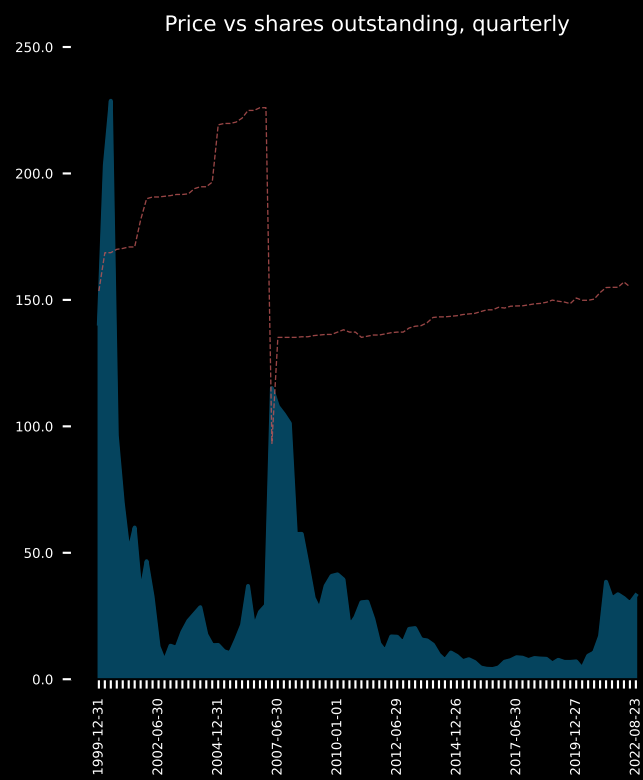
KFO / Communication Equipment / CA / 2022-08-23



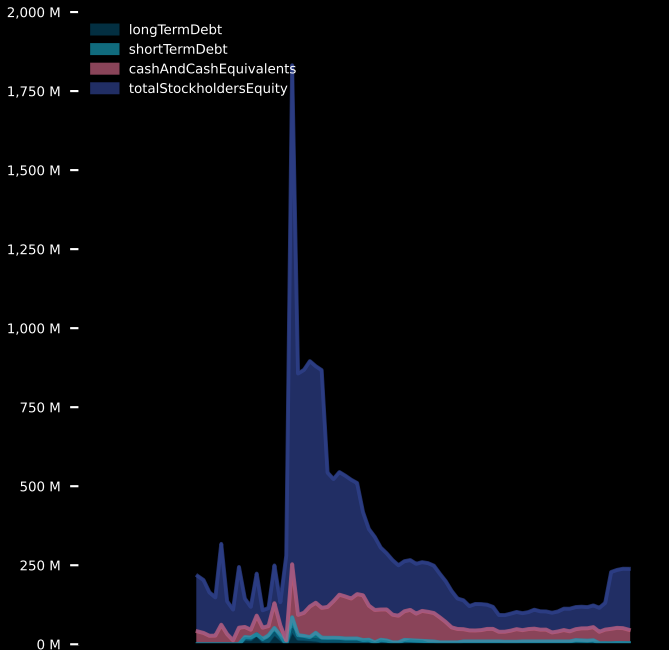
Owners Earnings, annually



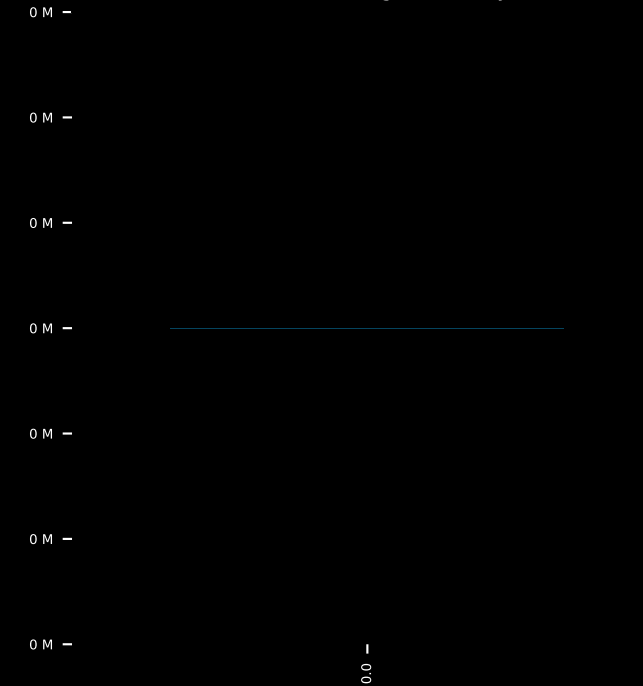
EXFO, Inc. engages in the provision of test, monitoring, and analytics solutions for fixed and mobile communications service providers, webscale companies and equipment manufacturers. The company is headquartered in Quebec, Quebec and currently employs 1,810 full-time employees. The company focuses on network infrastructures: fourth generation (4G)/long-term evolution (LTE), wireless backhaul, small cells and distributed antenna systems (DAS), 100G network upgrades and fiber-to-the-home (FTTH)/fiber-to-the-curb (FTTC)/fiber-to-the-node (FTTN) deployments. The company offers a range of wire line and wireless tests, service assurance and analytics solutions to the global telecommunications industry. Its products include TestFlow; LTB-8 platform; a family of optical time domain reflect meters (OTDRs); iSAM; MaxTester-940 Fiber Certifier optical loss test set (OLTS) for data center and enterprise markets, and the G.fast handheld test set.



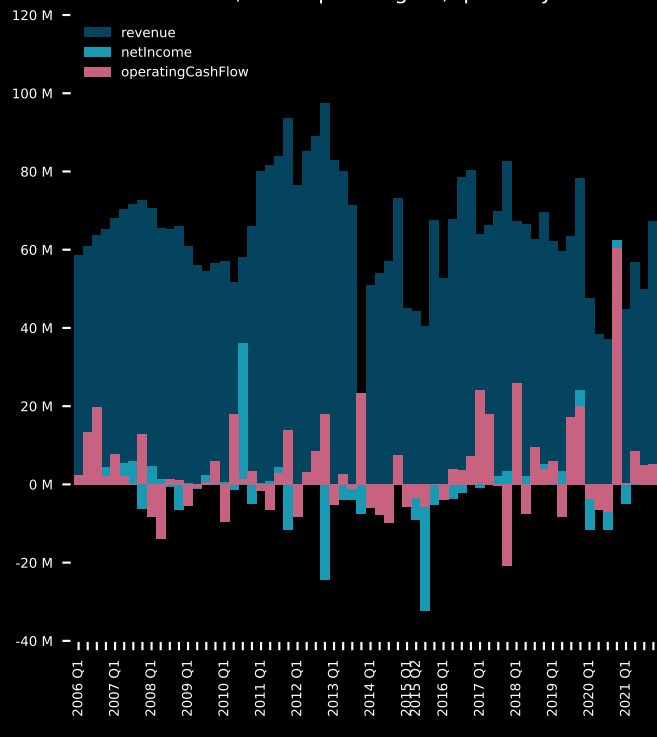
AVNW / 0 / 0 / 2022-08-23



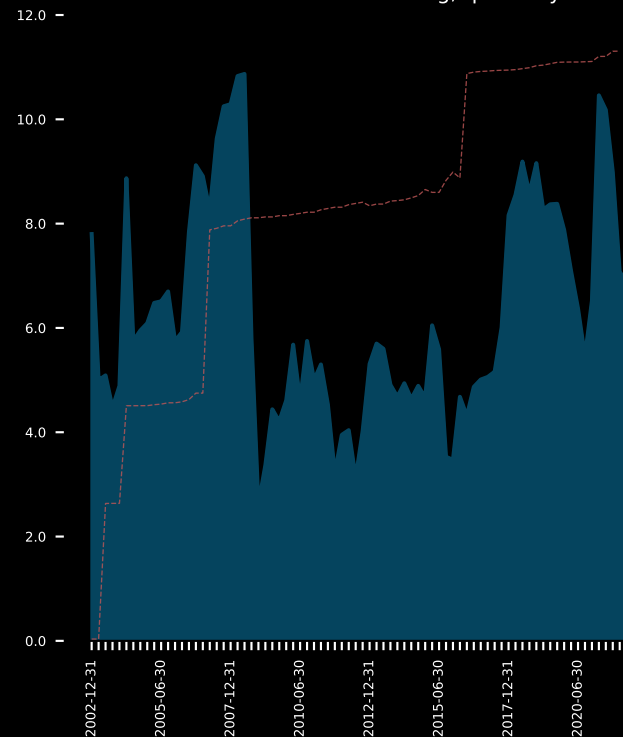
Owners Earnings, annually



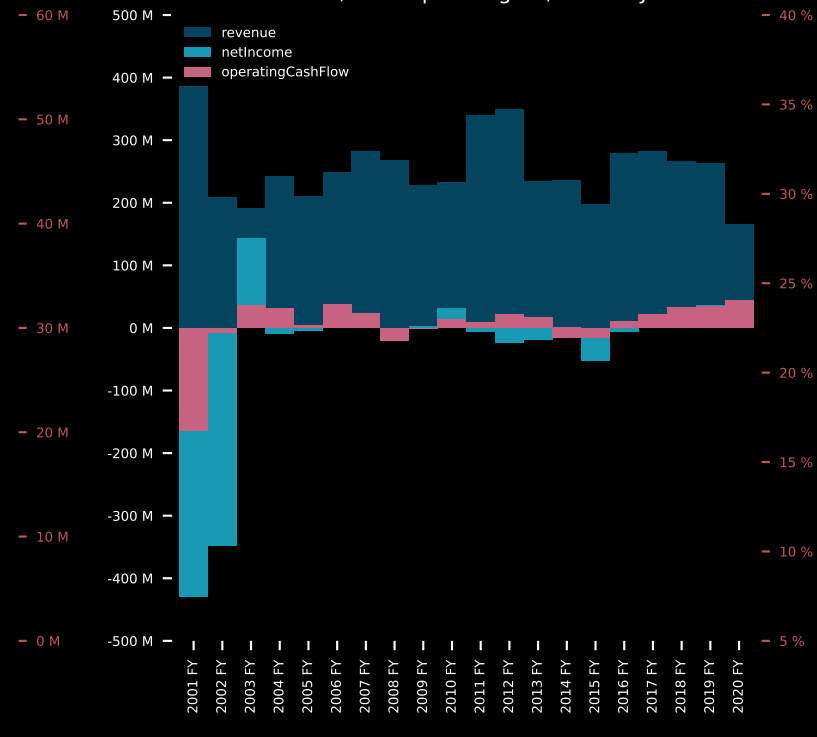
Sales, NI & Operating CF, quarterly



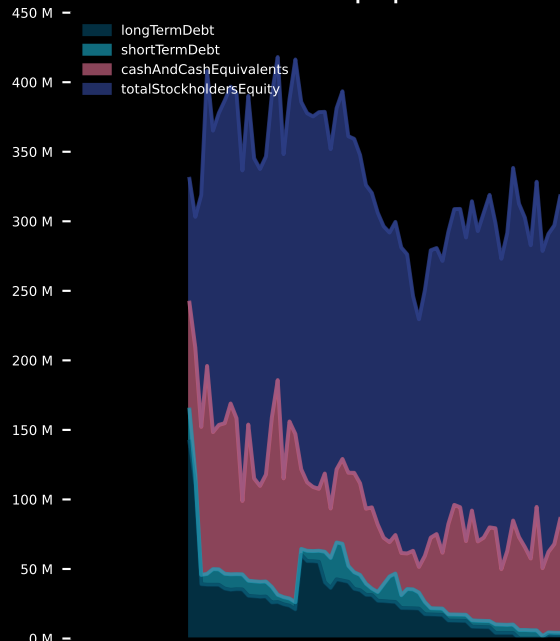
Price vs shares outstanding, quarterly



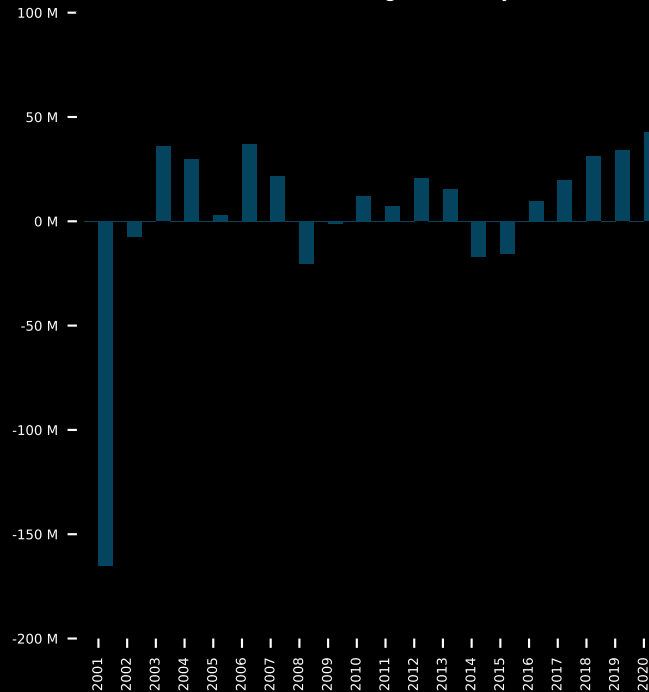
Sales, NI & Operating CF, annually



ILT / Communication Equipment / IL / 2022-08-23

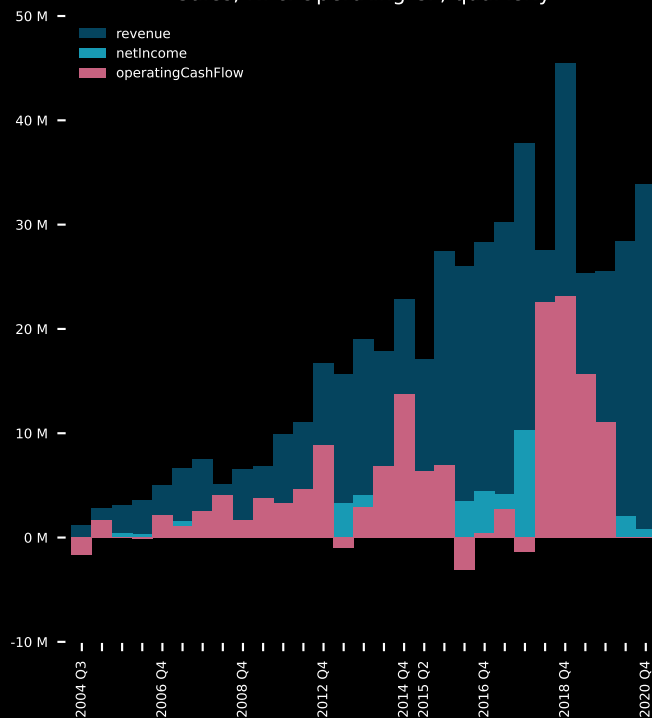


Owners Earnings, annually

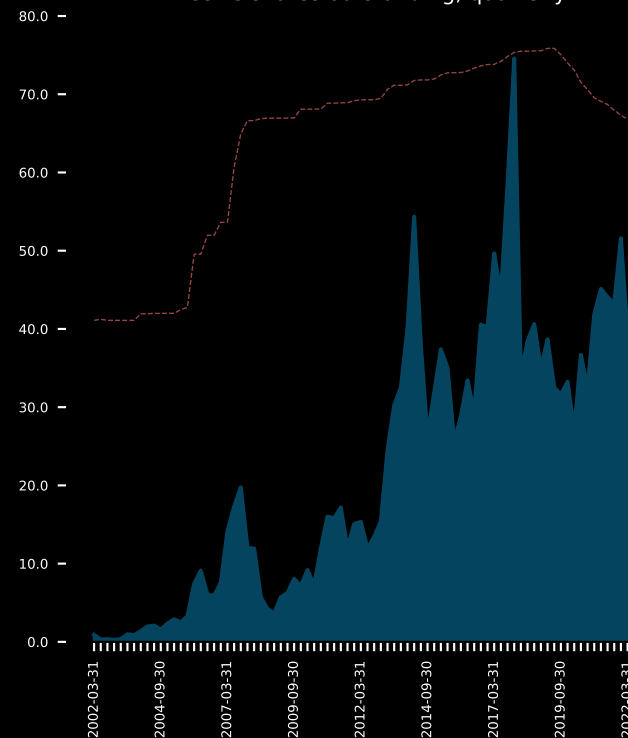


Gilat Satellite Networks Ltd., together with its subsidiaries, provides satellite-based broadband communication solutions and services in Israel and internationally. It operates through Fixed Networks, Mobility Solutions, and Terrestrial Infrastructure Projects segments. The company offers end-to-end VSAT network, including VSAT terminals and a network management system, as well as SkyEdge IV and SkyEdge II-c platforms; and satellite-on-the-move terminals for air, sea, and land platforms. It also provides ER6000- A and AEROEDGE 6000 for the satellite communication needs to in-flight connectivity service providers; MrineRay for maritime connectivity; and RaySat antennas to deliver critical data, voice, and video for real-time information flow, as well as electronically steered antenna system for broadband connectivity on mobile platforms. In addition, the company offers aerodynamic antenna systems for land vehicles and aircraft; SatTrooper, a manpack terminal for civilian and military operations; BlackRay SATCOM terminals for airborne missions; GLT1000 modem for connectivity across land, sea, and air; and MPT1000 satellite terminal for land and air.

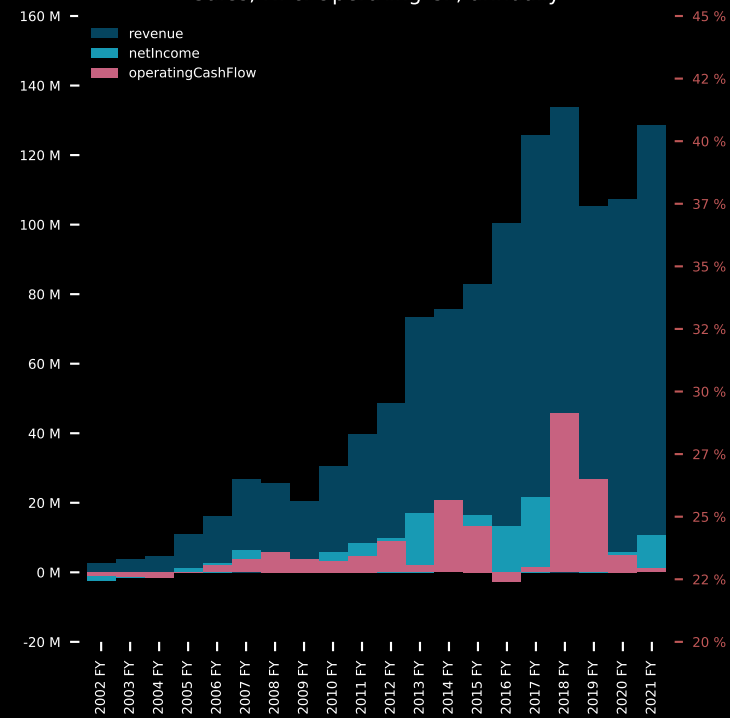
Sales, NI & Operating CF, quarterly



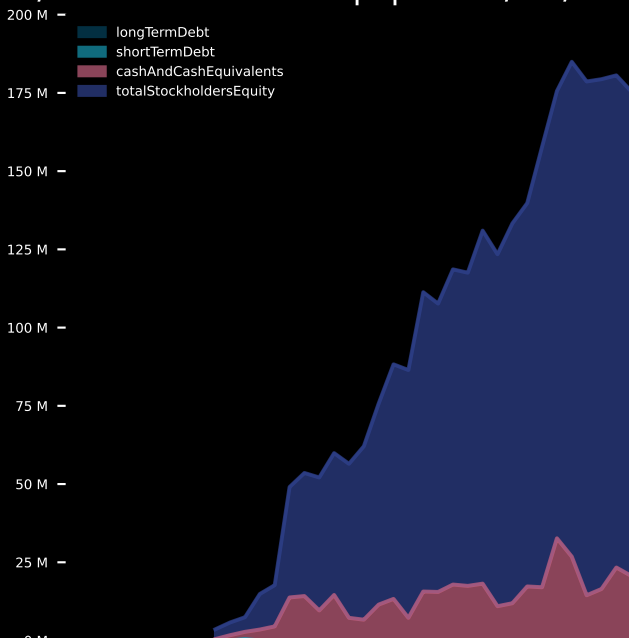
Price vs shares outstanding, quarterly



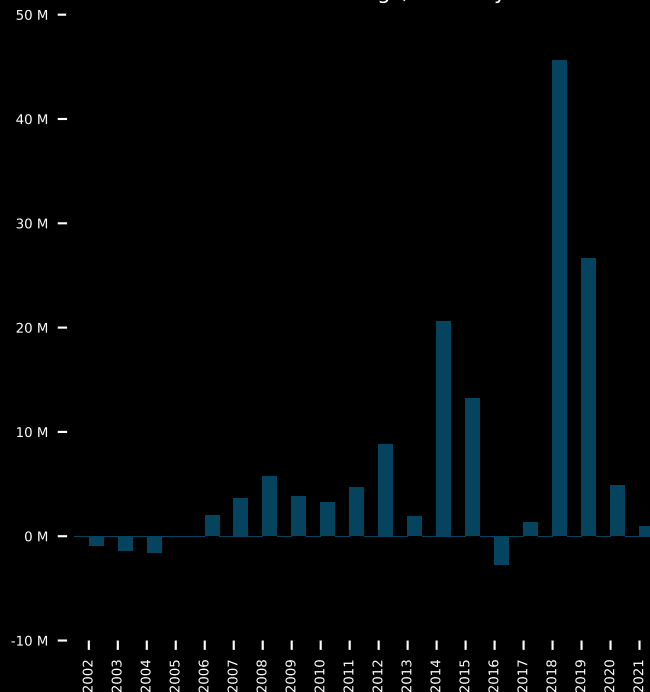
Sales, NI & Operating CF, annually



ILC / Communication Equipment / IL / 2022-08-23



Owners Earnings, annually

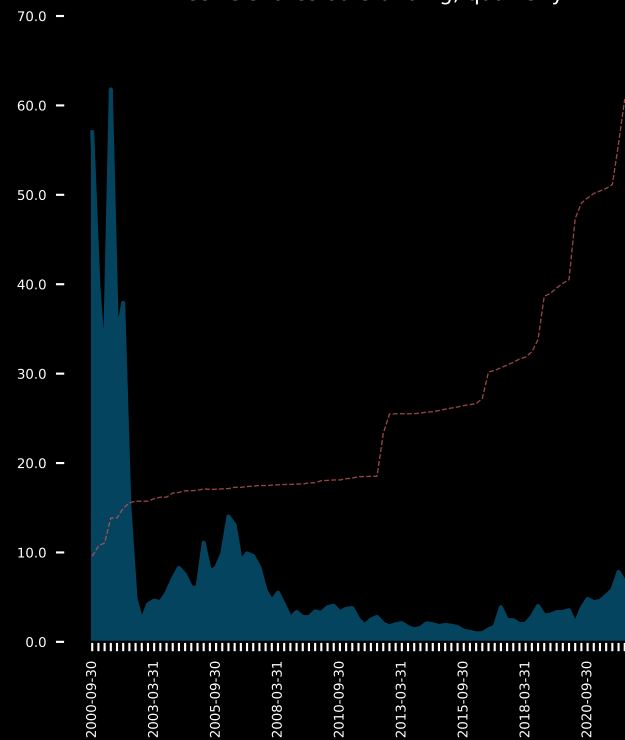


Silicom Ltd., together with its subsidiaries, designs, manufactures, markets, and supports networking and data infrastructure solutions for a range of servers, server-based systems, and communications devices in the United States, North America, Israel, Europe, and the Asia Pacific. It offers server network interface cards; and smart cards, such as smart server adapters, which include redirector and switching cards, encryption and data compression hardware acceleration cards, forward error correction acceleration and offloading cards, time synchronization cards, and field programmable gate array-based cards. The company also provides virtualized and universal customer-premises equipment; edge devices for SD-WAN and NFV deployments; and distributed units for the 5G mobile infrastructure market. It serves original equipment manufacturing, cloud, telco, mobile, and related service provider customers. The company was incorporated in 1987 and is headquartered in Kfar Sava, Israel.

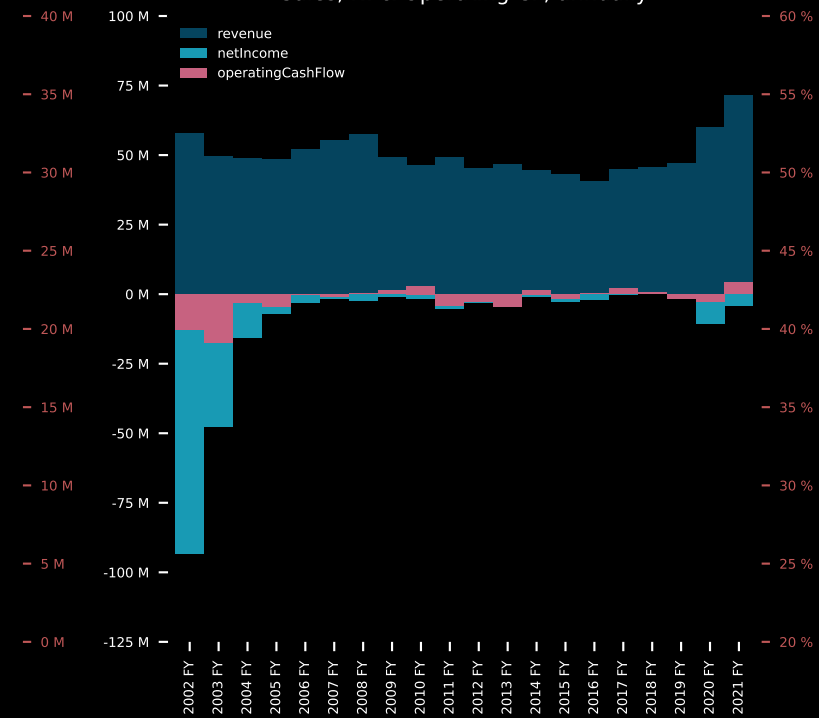
Sales, NI & Operating CF, quarterly



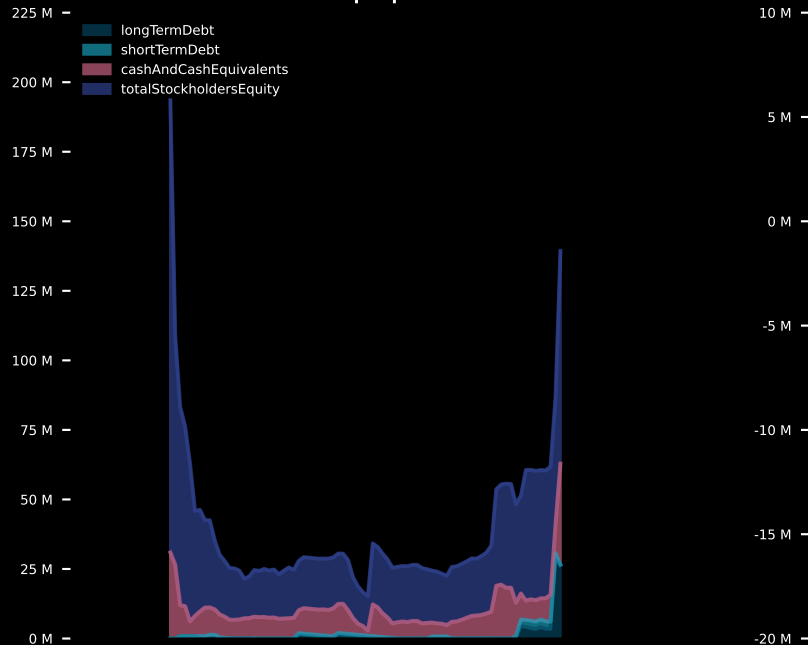
Price vs shares outstanding, quarterly



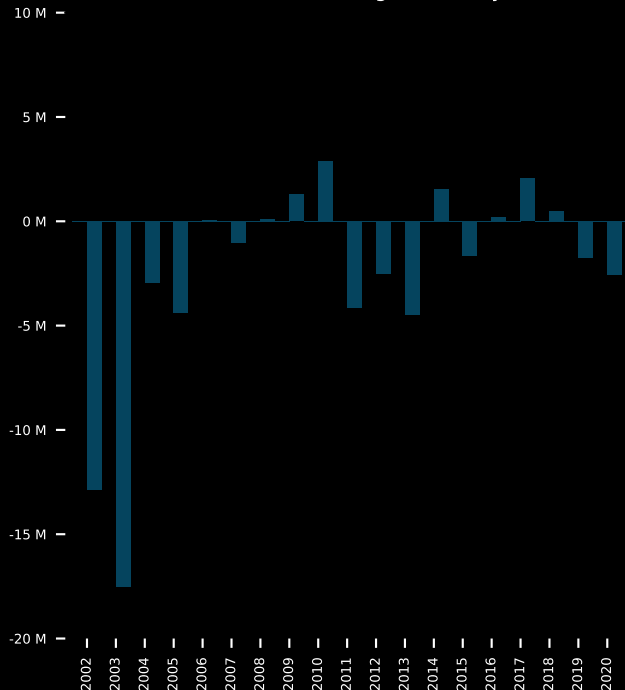
Sales, NI & Operating CF, annually



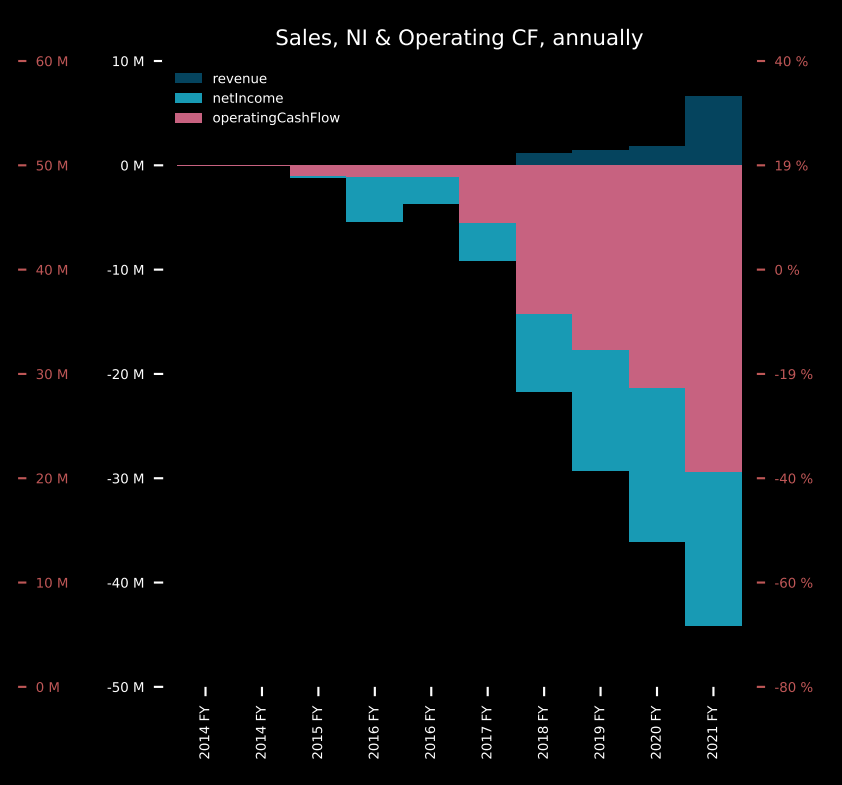
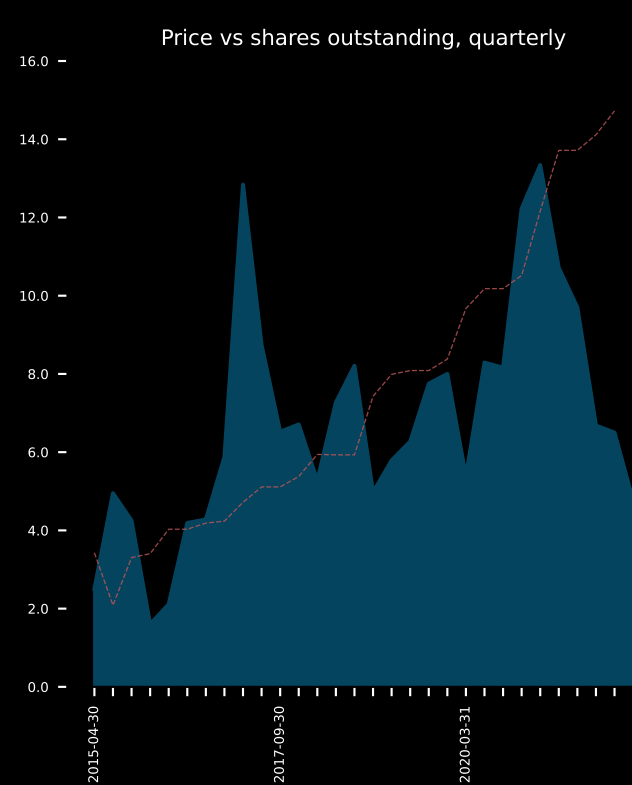
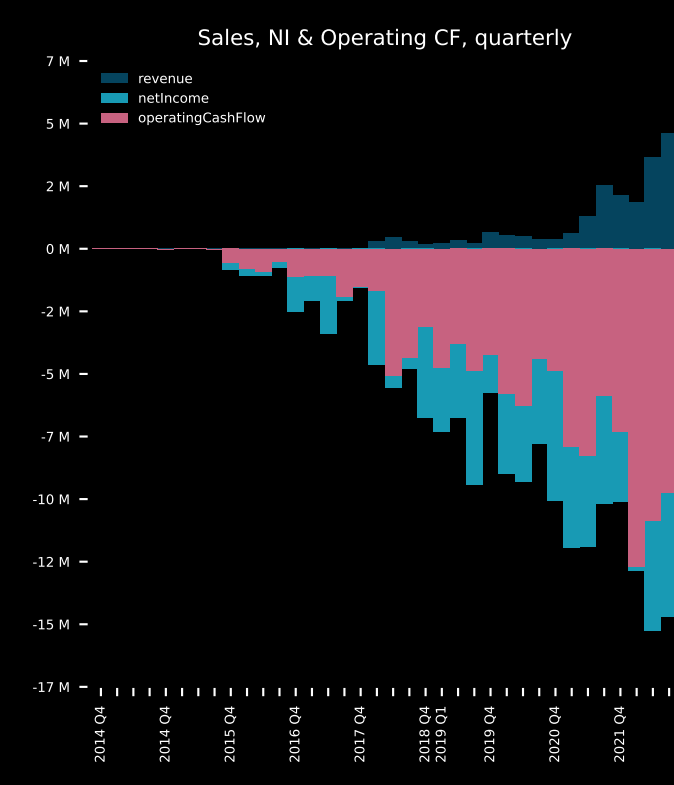
RX / Communication Equipment / US / 2022-08-23



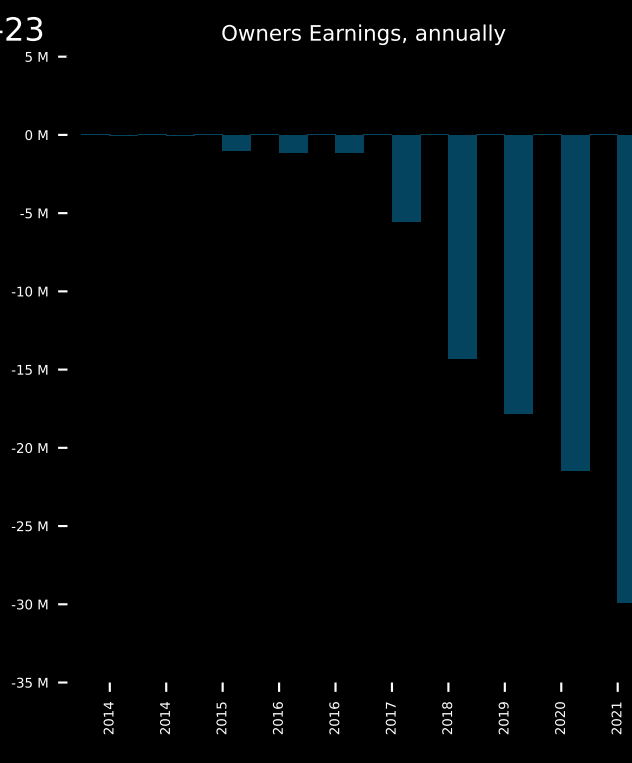
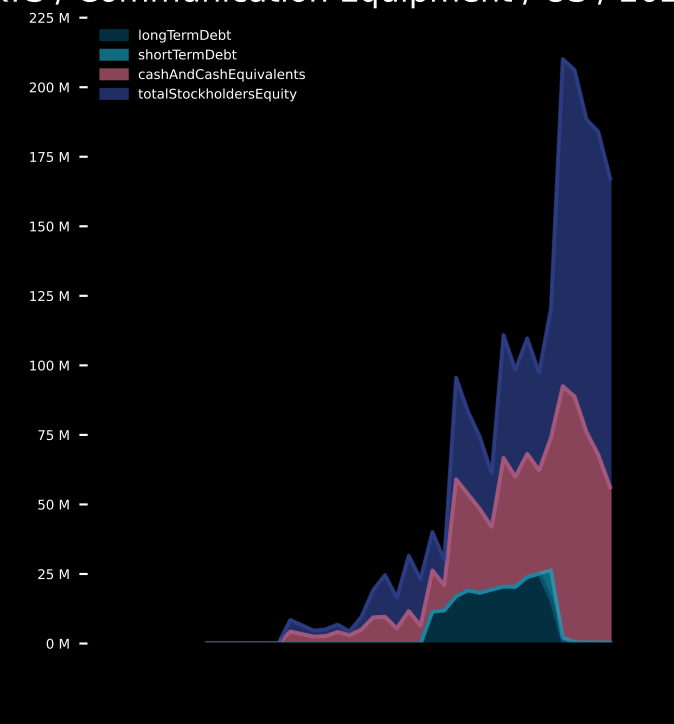
Owners Earnings, annually



Lantronix, Inc. provides software as a service (SaaS), engineering services, and hardware for edge computing, the Internet of Things (IoT), and remote environment management (REM) in the Americas, Europe, the Middle East, Africa, and the Asia Pacific Japan. The company's IoT products include IoT Connectivity, which provide wired and wireless connections that enhance the value and utility of modern electronic systems and equipment through secure network connectivity, power for IoT end devices through Power over Ethernet, application hosting, protocol conversion, media conversion, secure access for distributed IoT deployments, and various other functions; IoT Compute, such as application processing delivering compute to meet customer needs for data transformation, computer vision, machine learning, augmented/virtual reality, audio/video aggregation and distribution, and custom applications; and IoT Telematics, which provides power efficient products designed to support communications across interfaces and industrial protocols for vehicle, fleet, and asset tracking and management. It also offers network switches, media converters, power over Ethernet (PoE) injectors, and PoE switches.

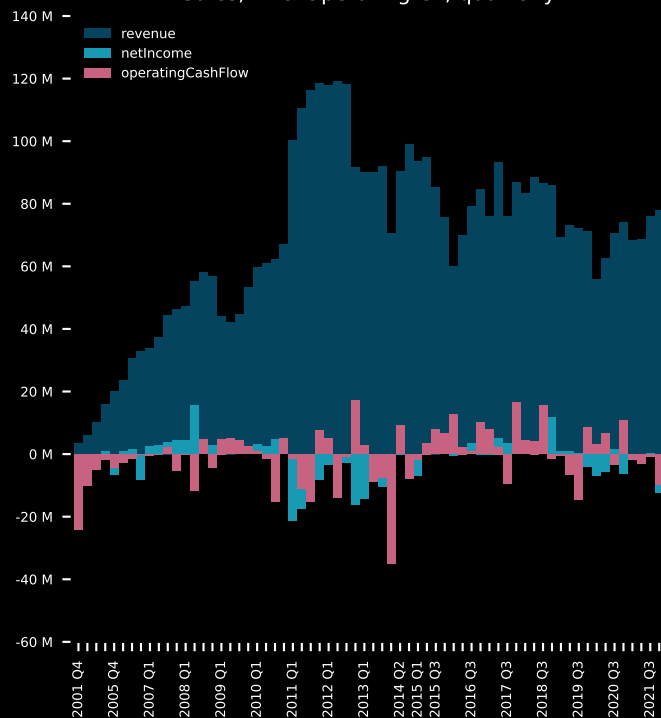


TS / Communication Equipment / US / 2022-08-23

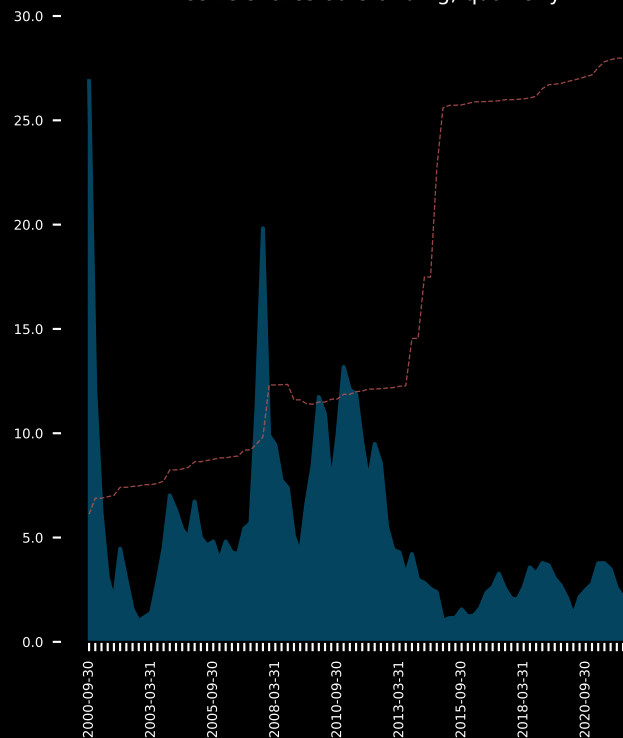


Akoustis Technologies, Inc., through its subsidiary, Akoustis, Inc., develops, designs, manufactures, and sells radio frequency (RF) filter products for the mobile wireless device industry in the United States. It operates through two segments, Foundry Fabrication Services and RF Filters. The Foundry Fabrication Services segment provides engineering review services; and semiconductor wafer-manufacturing and microelectromechanical systems foundry services. The RF Filters segment consists of amplifier and filter products. It offers RF filters for mobile wireless devices, such as smartphones and tablets, cellular infrastructure equipment, Wi-Fi customer premise equipment, and military and defense applications. The company was incorporated in 2013 and is headquartered in Huntersville, North Carolina.

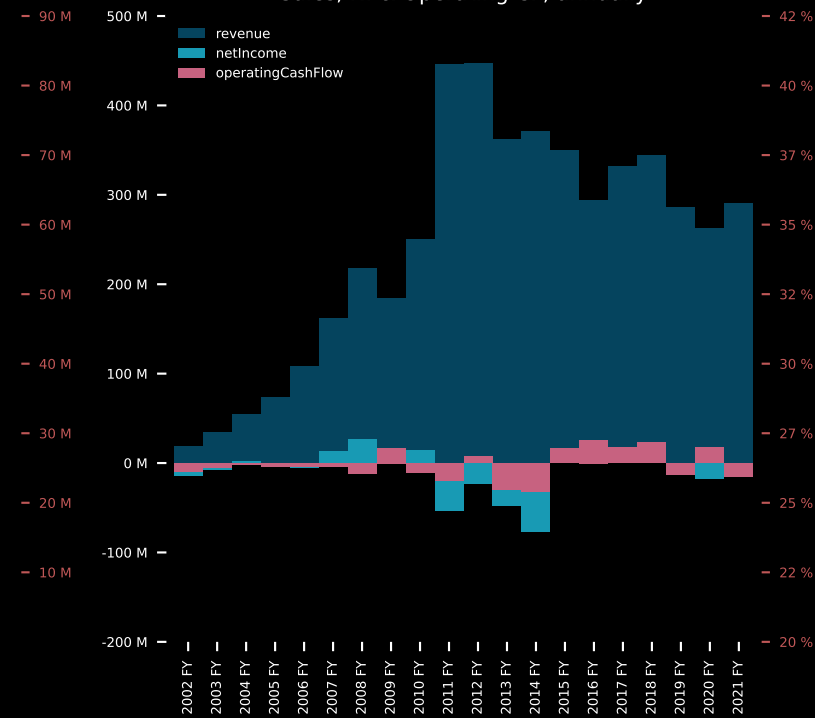
Sales, NI & Operating CF, quarterly



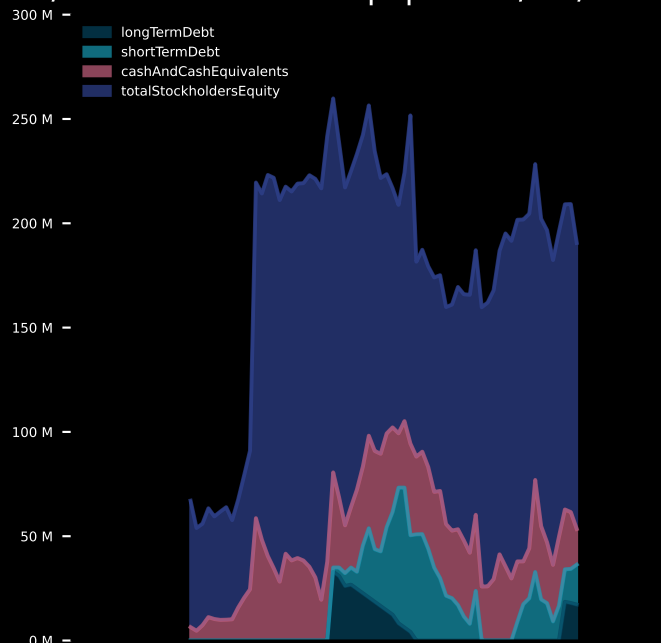
Price vs shares outstanding, quarterly



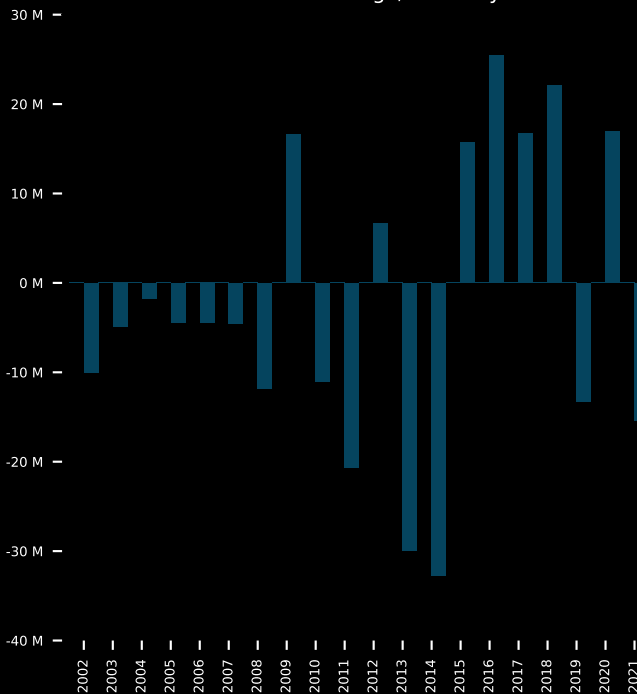
Sales, NI & Operating CF, annually



RNT / Communication Equipment / IL / 2022-08-23



Owners Earnings, annually

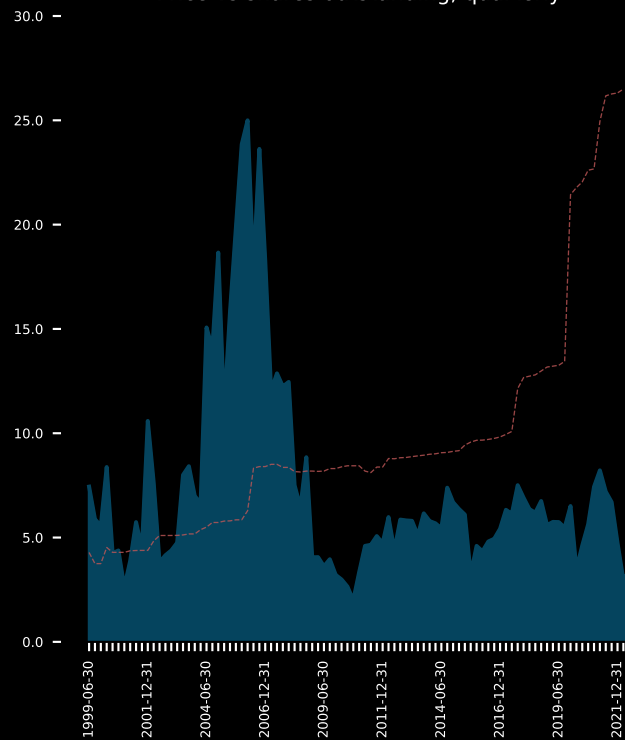


Ceragon Networks Ltd. provides wireless backhaul solutions that enable cellular operators and other wireless service providers to deliver voice and data services. Its wireless backhaul solutions use microwave and millimeter wave technology to transfer telecommunication traffic between base stations, small/distributed cells, and the core of the service provider's network. The company also offers wireless fronthaul solutions that use microwave technology for ultra-high speed, ultra-low latency communication for wireless 5G and 4G base stations. In addition, it provides IP-20 all-outdoor solutions, such as IP-20C, IP-20C-HP, IP-20S, IP-20E, and IP-20V; IP-20 split-mount/all-indoor solutions comprising IP-20N/IP-20A, IP-20F, and IP-20G; and IP-50 disaggregated solutions, including IP-50E, IP-50C, IP-50S, and IP-50FX for various short-haul, long-haul, fronthaul, and enterprise access applications. Further, the company offers network management system; and network and radio planning, site survey, solutions development, installation, network auditing and optimization, maintenance, training, and other services. It

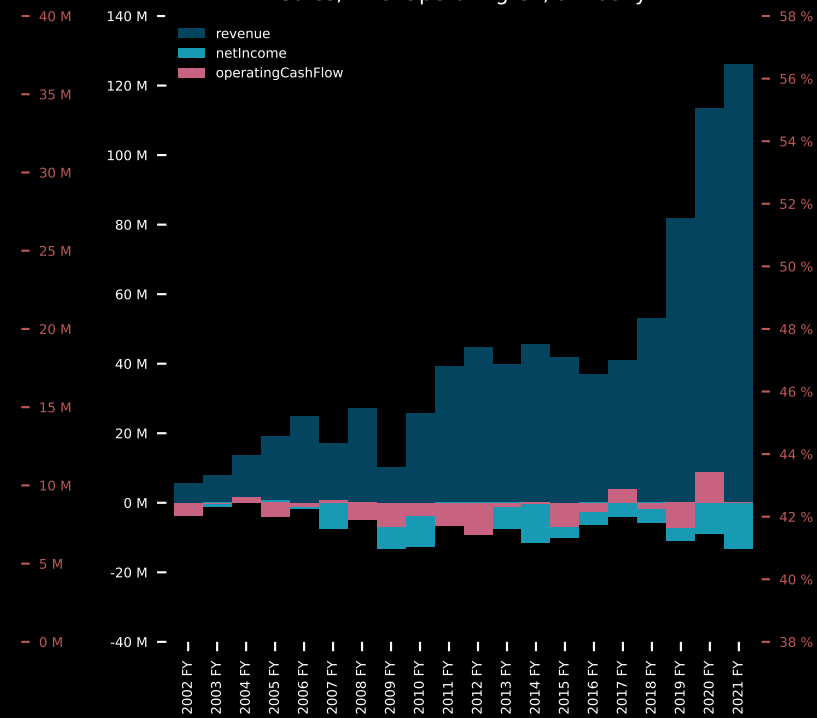
Sales, NI & Operating CF, quarterly



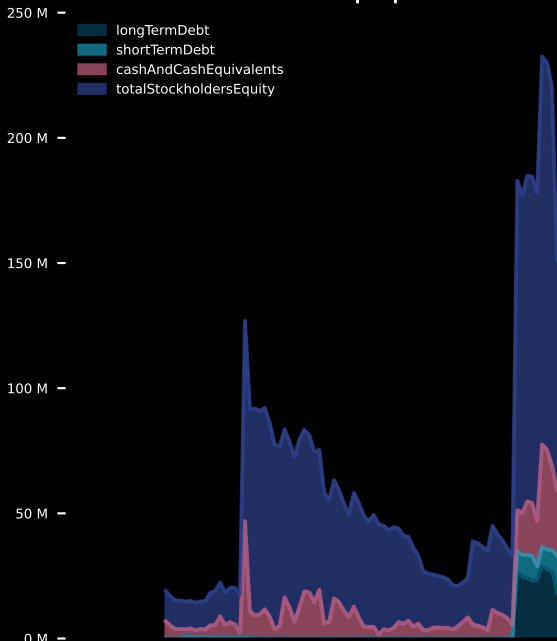
Price vs shares outstanding, quarterly



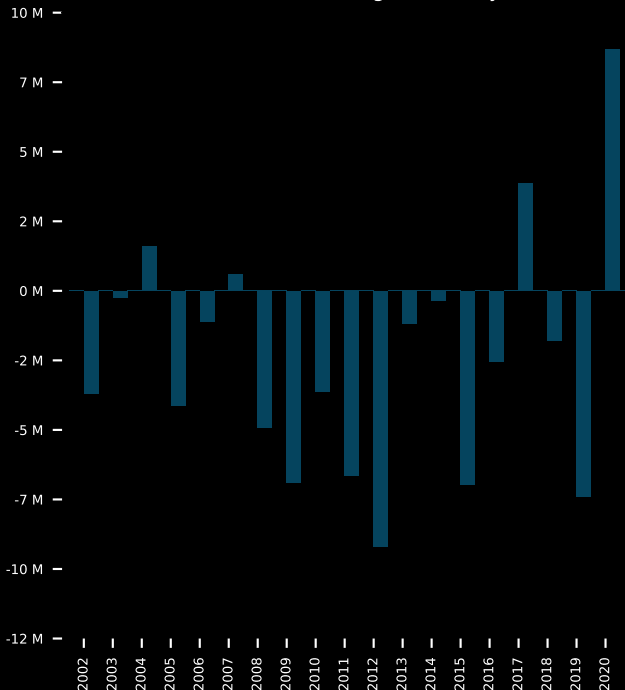
Sales, NI & Operating CF, annually



VFL / Communication Equipment / US / 2022-08-23

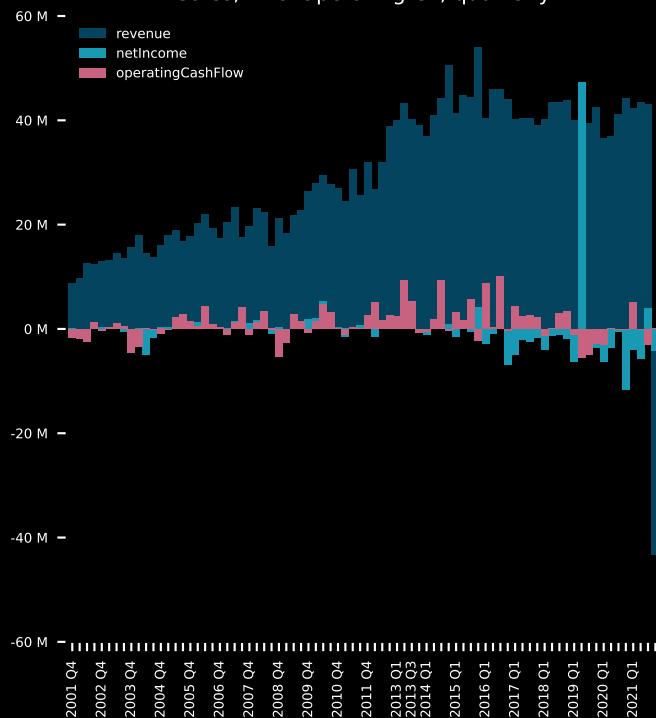


Owners Earnings, annually

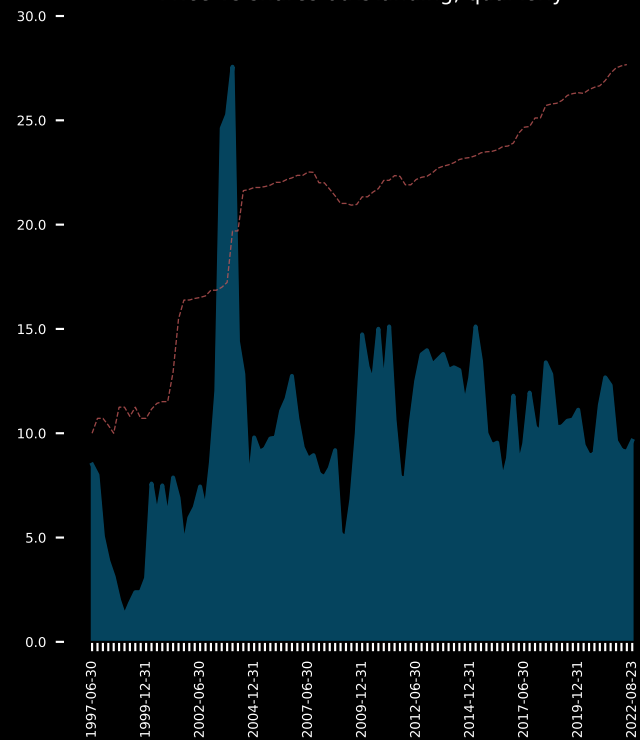


PowerFleet, Inc. provides wireless Internet-of-Things asset management solutions in the United States, Israel, and internationally. The company offers real-time intelligence for organizations to capture IoT data from various types of assets with devices and sensors to increase efficiencies, and improve safety and security, as well as increase their profitability in easy-to-understand reports, dashboards, and real-time alerts; and application programming interfaces for additional integrations and development to boost other enterprise management systems and third-party applications. It also provides hosting, maintenance, and support and consulting services; and Software as a Service, including system monitoring, help desk technical support, escalation procedure development, routine diagnostic data analysis, and software updates services. The company offers its products under the PowerFleet, Pointer, and Cellocator brands. It sells its products to commercial and government sectors in manufacturing, automotive manufacturing, wholesale and retail, food and grocery distribution, pharmaceutical and medical distribution, utility, and other industries.

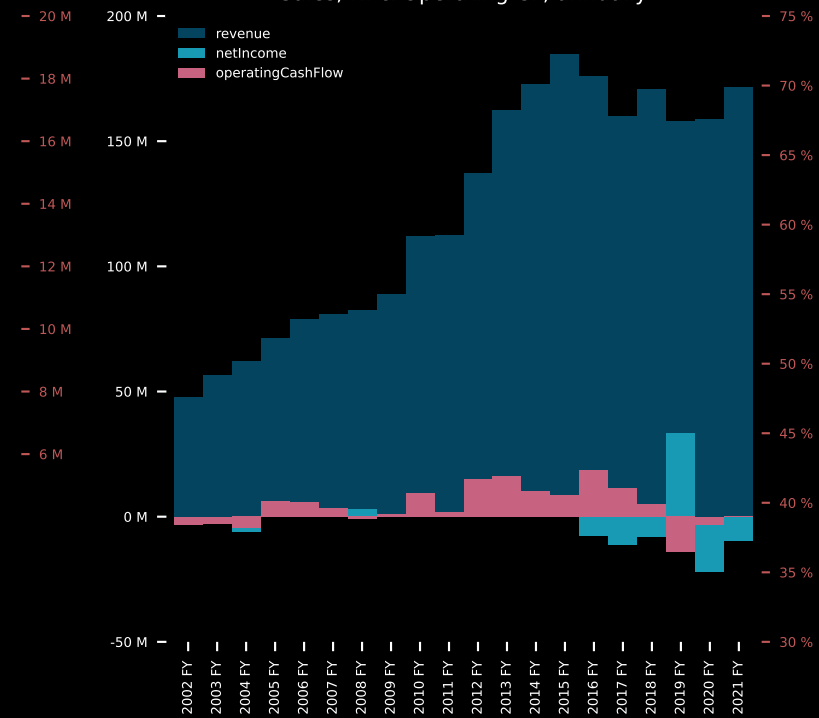
Sales, NI & Operating CF, quarterly



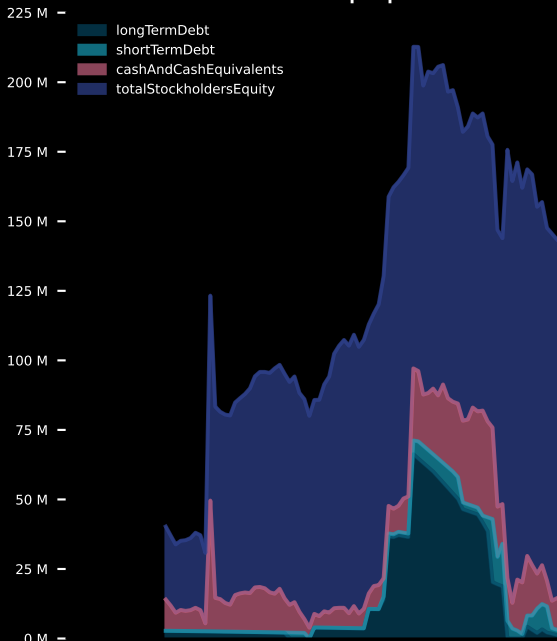
Price vs shares outstanding, quarterly



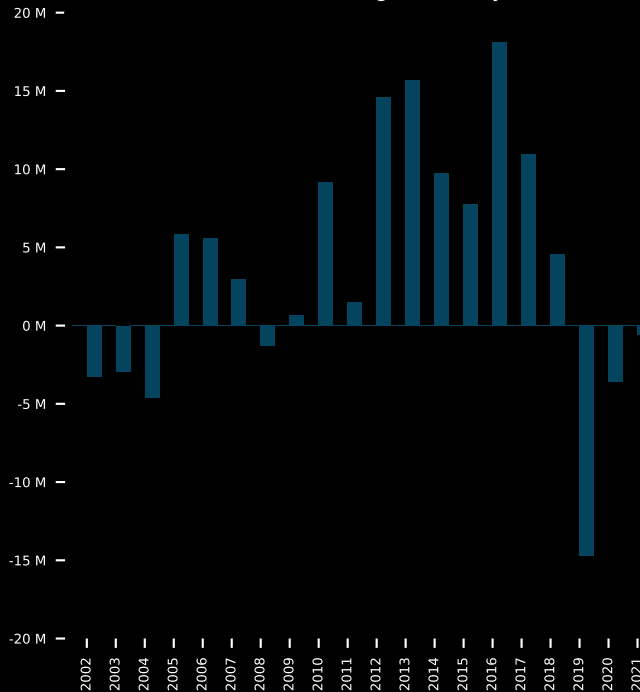
Sales, NI & Operating CF, annually



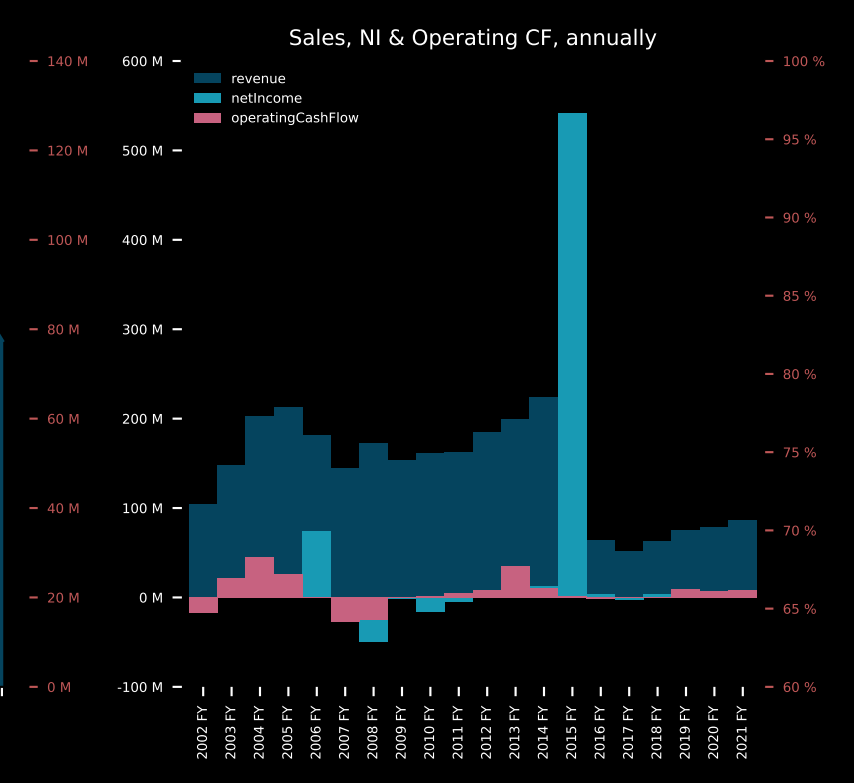
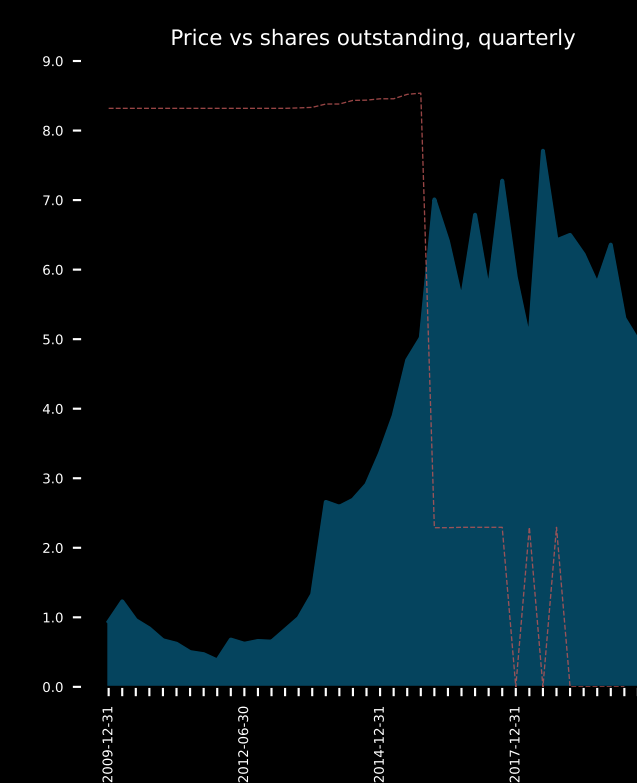
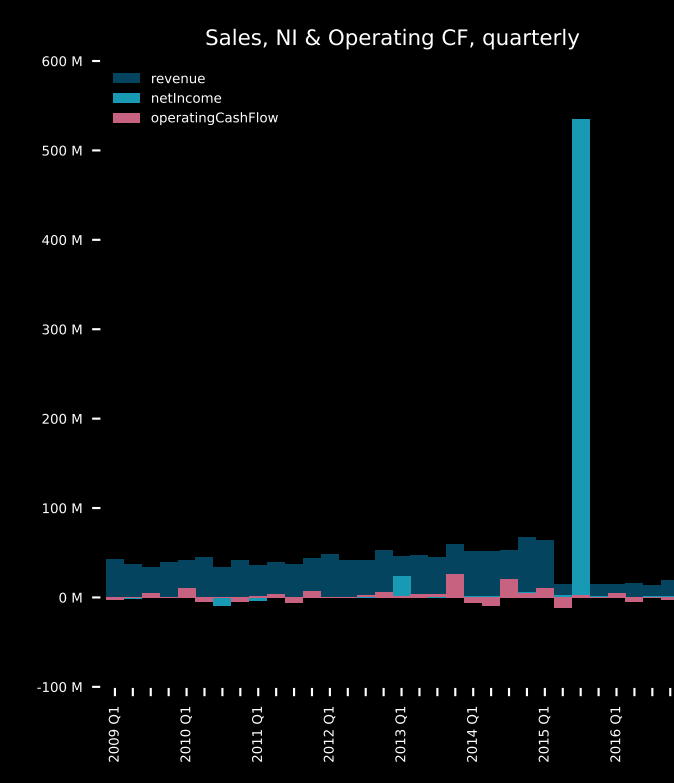
KVI / HI / Communication Equipment / US / 2022-08-23



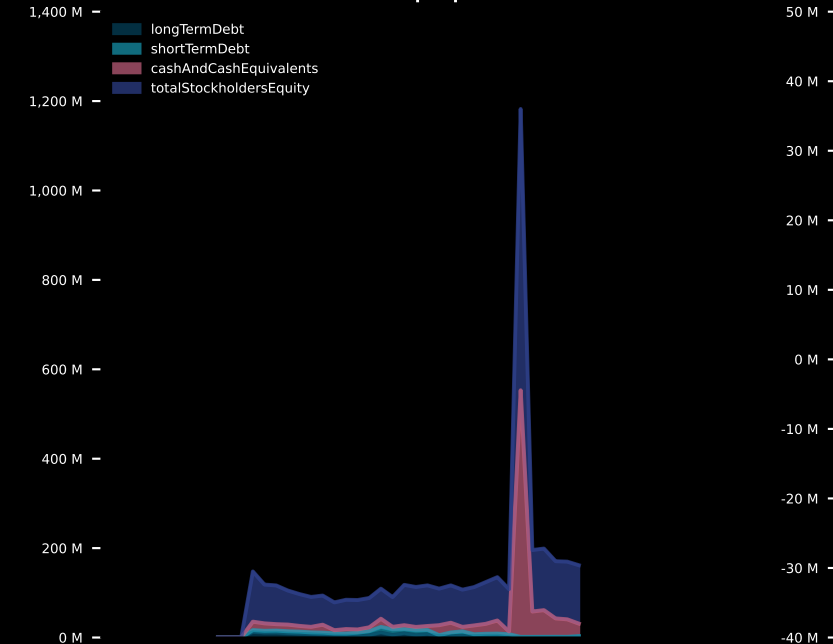
Owners Earnings, annually



KVI Industries, Inc. designs, develops, manufactures, and markets mobile connectivity products and services for the marine and land mobile markets in the United States and internationally. The company operates through Mobile Connectivity and Inertial Navigation segments. The company offers mobile satellite TV and communications products; two-way satellite communications systems; onboard TracPhone terminals and hub equipment; data management software; and Iridium OpenPort hardware products and services. It also offers airtime plans that enable customers to obtain Internet and voice services; and value-added, and news and radio content services to retail customers. In addition, the company provides navigation, guidance, and stabilization products for the commercial and defense markets comprising precision fiber optic gyro-based systems; tactical navigation systems for tactical trucks and light armored vehicles; and commercial products, such as navigation and positioning systems for various applications consisting of precision mapping, dynamic surveying, autonomous vehicles, train location

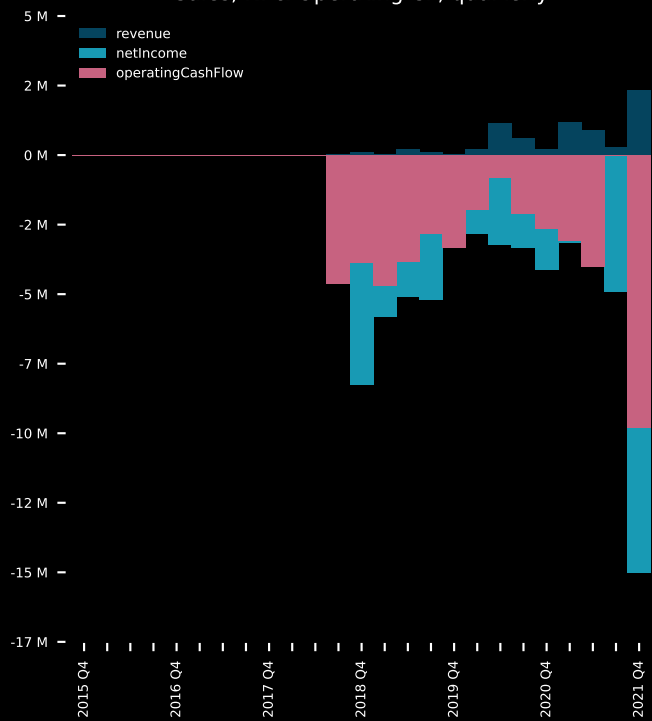


TI.HE / Communication Equipment / FI / 2022-08-23

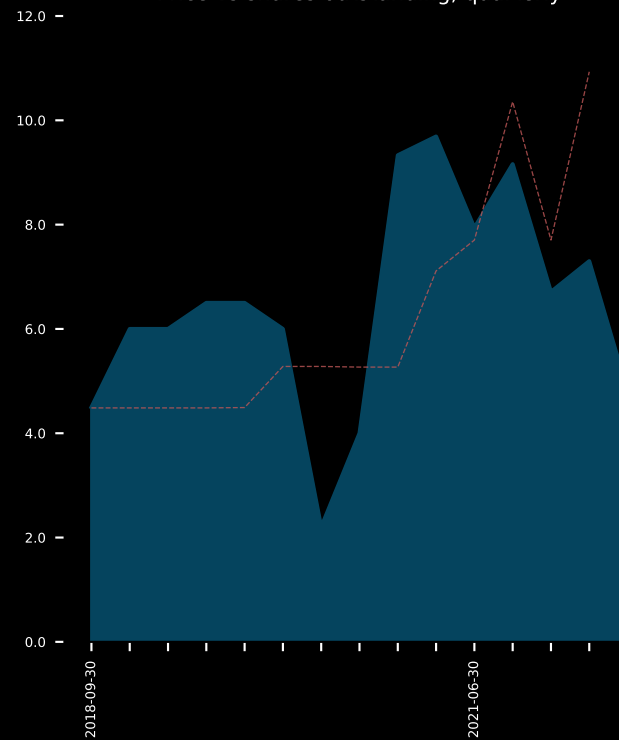


Bittium Oyj provides solutions for connectivity, tactical communications, and biosignal measuring and monitoring. It offers tactical and secure communication systems, including secured smartphones, device management and encryption software, secured communication applications, device platforms, VPN software, monitoring and reporting modules, wireless broadband network systems, tactical radios, VoIP software, tactical IP-based communication products, and LTE access solutions. The company's solutions are used for customers in the defense, security, and public safety markets. It also provides research and development services in the areas of wireless telecommunications, medical technology, and automotive and manufacturing industries. In addition, the company offers healthcare technology products and services in biosignal measuring in the areas of cardiology, neurology, rehabilitation, occupational health, and sports medicine. It operates in Finland, Germany, the United States, Mexico, and Singapore. The company was formerly known as Elektrobit Corporation and changed its name to Bittium Oyj in July 2015. Bittium Oyj is a public company.

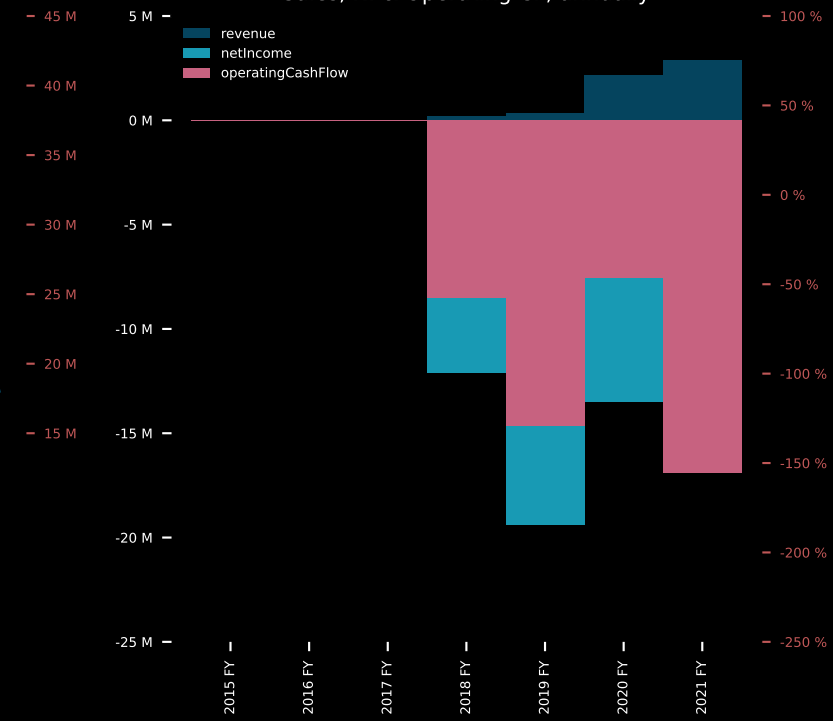
Sales, NI & Operating CF, quarterly



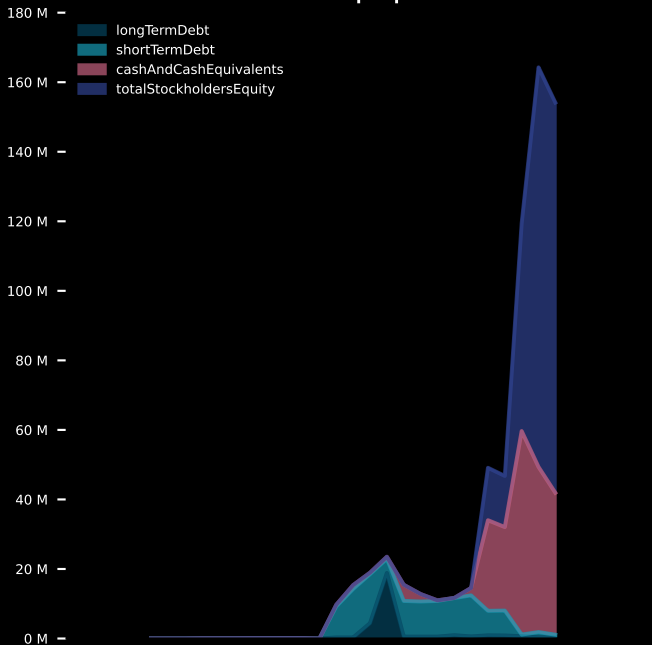
Price vs shares outstanding, quarterly



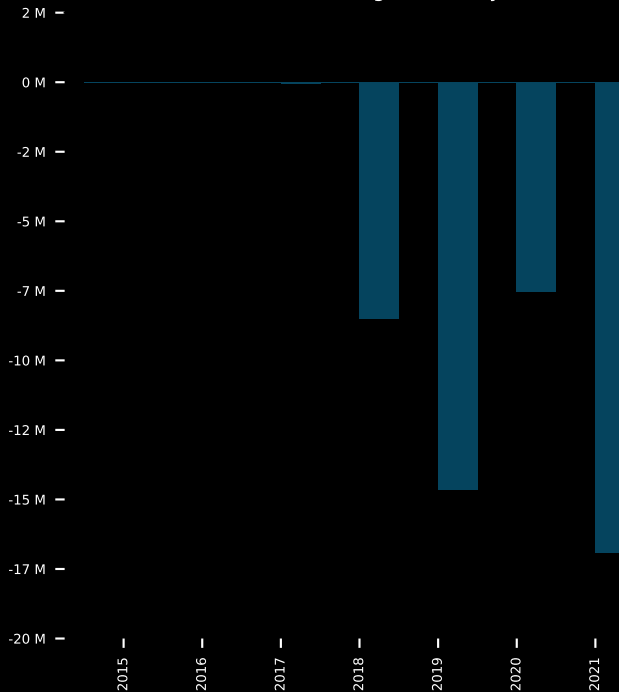
Sales, NI & Operating CF, annually



IDS / Communication Equipment / US / 2022-08-23

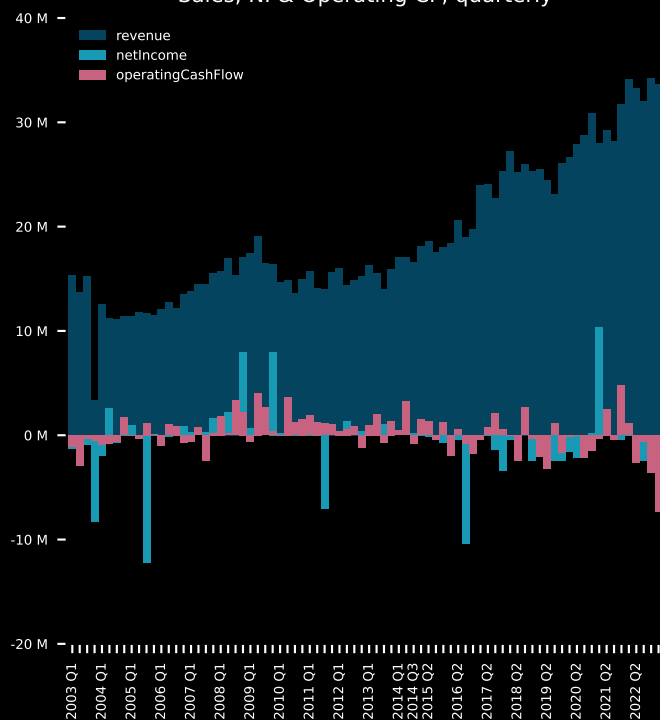


Owners Earnings, annually

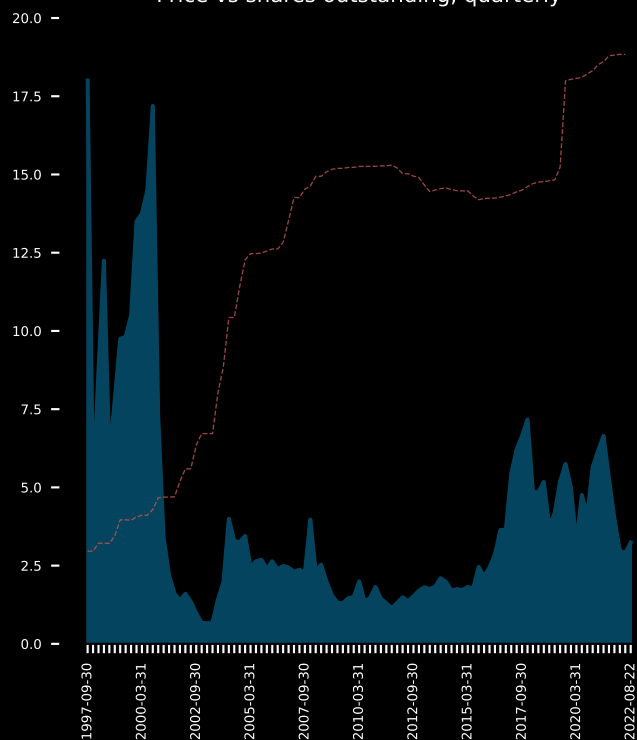


Ondas Holdings Inc., through its subsidiaries, provides private wireless, drone, and automated data solutions in the United States and internationally. The company operates in two segments, Ondas Networks and American Robotics. It designs, develops, manufactures, sells, and supports FullMAX software defined radio (SDR) platform. It provides FullMAX base station and remote radios; and FullMAX SDR platform that helps to enable secure and reliable industrial-grade connectivity for truly mission-critical applications. The company also offers Scout Drone, an AI-powered drone with imaging payloads; the ScoutBase, a ruggedized base station for housing, charging, data processing, and cloud transfer; and ScoutView, an American robotics analytics and user interface software package. It sells its products and services through direct sales force and value-added sales partners to critical infrastructure providers and applications, such as rail operators, commercial and industrial drone operators, electric and gas utilities, water and wastewater utilities, oil and gas producers and pipeline operators, and for other critical infrastructure applications in areas,

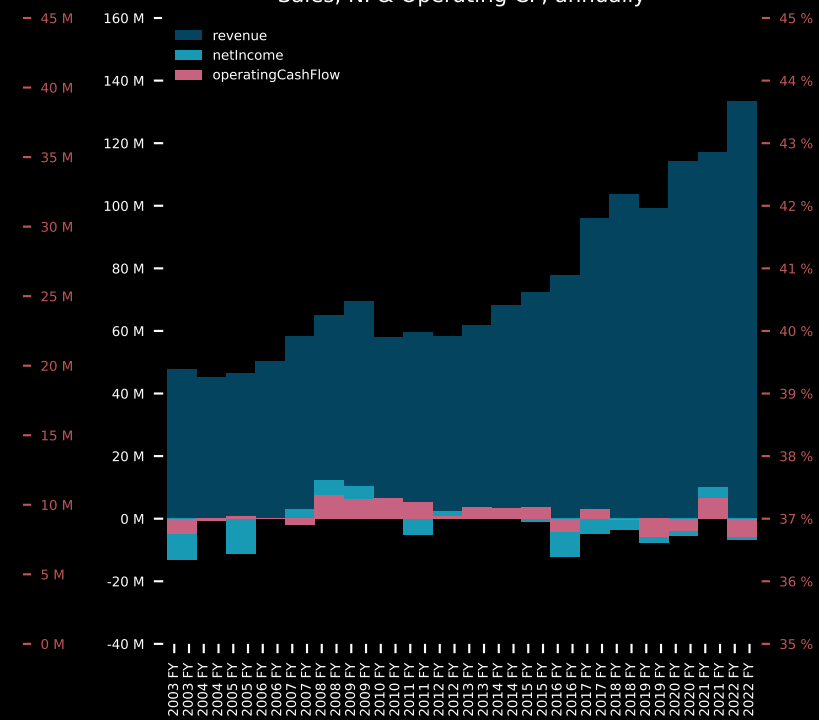
Sales, NI & Operating CF, quarterly



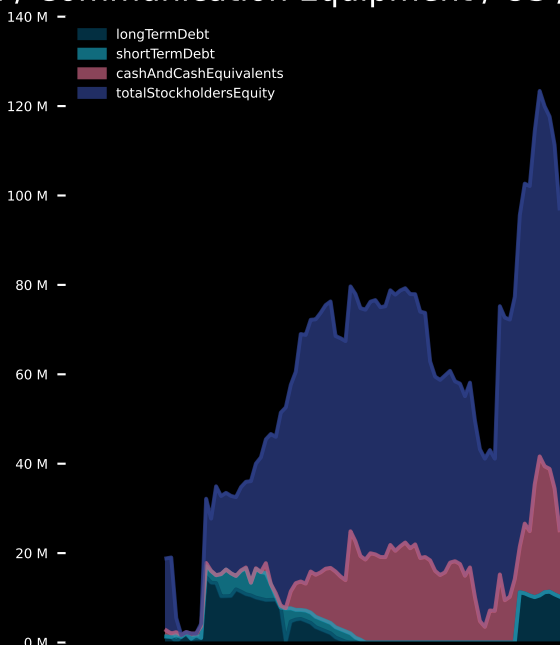
Price vs shares outstanding, quarterly



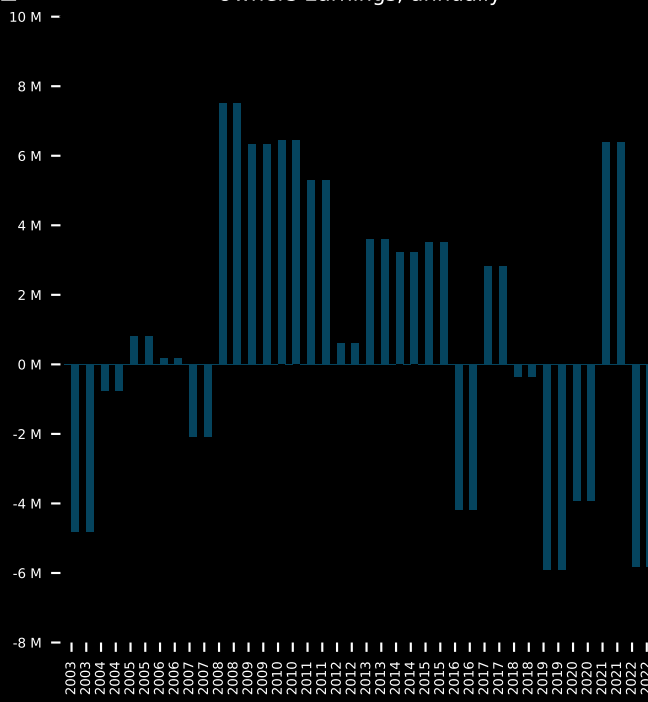
Sales, NI & Operating CF, annually



TI / Communication Equipment / US / 2022-08-22

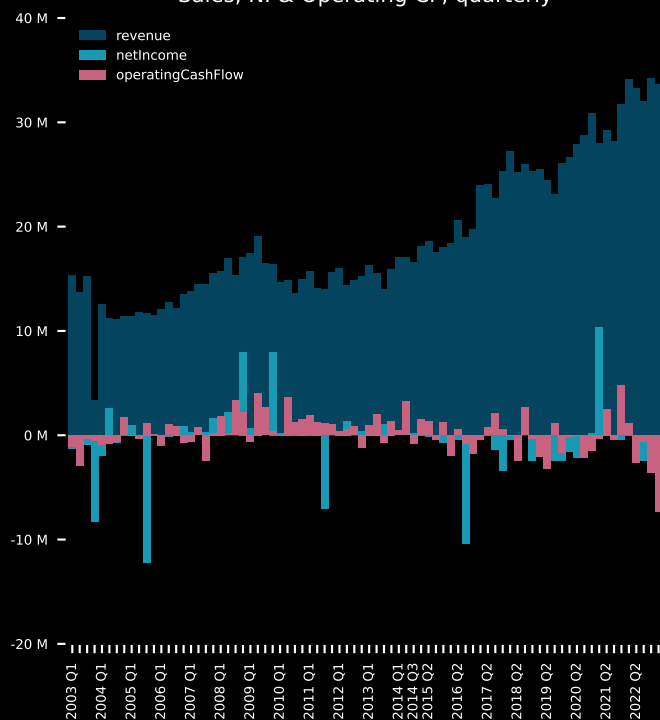


Owners Earnings, annually

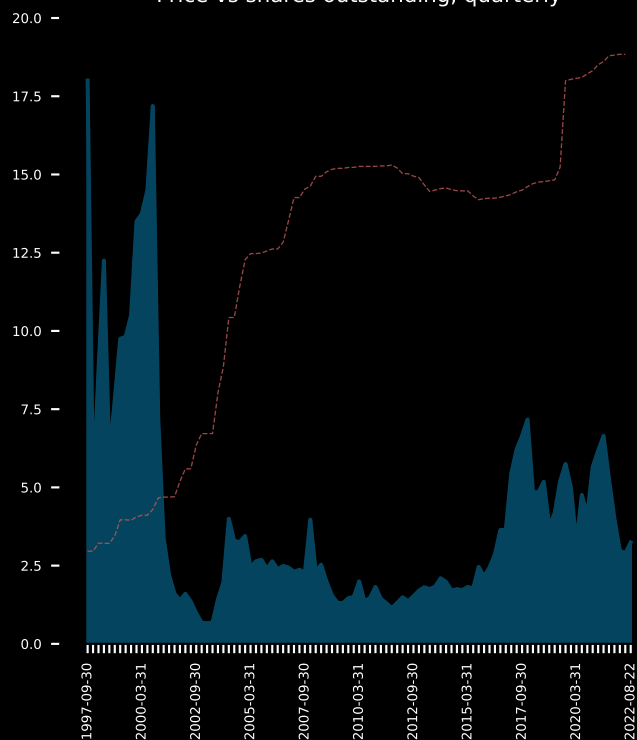


Iteris, Inc. provides intelligent transportation systems technology solutions in North America, Europe, South America, and Asia. The company offers smart mobility infrastructure solutions include traveler information systems, transportation performance measurement software, traffic analytics software, transportation operations software, transportation-related data sets, advanced sensing devices, managed services, traffic engineering services, and mobility consulting services. Its products include ClearGuide, ClearRoute, Commercial Vehicle Operations, BlueArgus, TrafficCarma, Vantage Apex, Vantage Fusion, Vantage Next, VantagePegasus, VantageRadius, Vantage Vector, Velocity, SmartCycle, SmartCycle Bike Indicator, SmartSpan, VersiCam, PedTrax, and P-Series products. The company also sells original equipment manufacturer products for the traffic intersection markets, such as traffic signal controllers and traffic signal equipment cabinets. In addition, it offers traffic management centers design, staffing, and operations services; traffic engineering and mobility consulting services

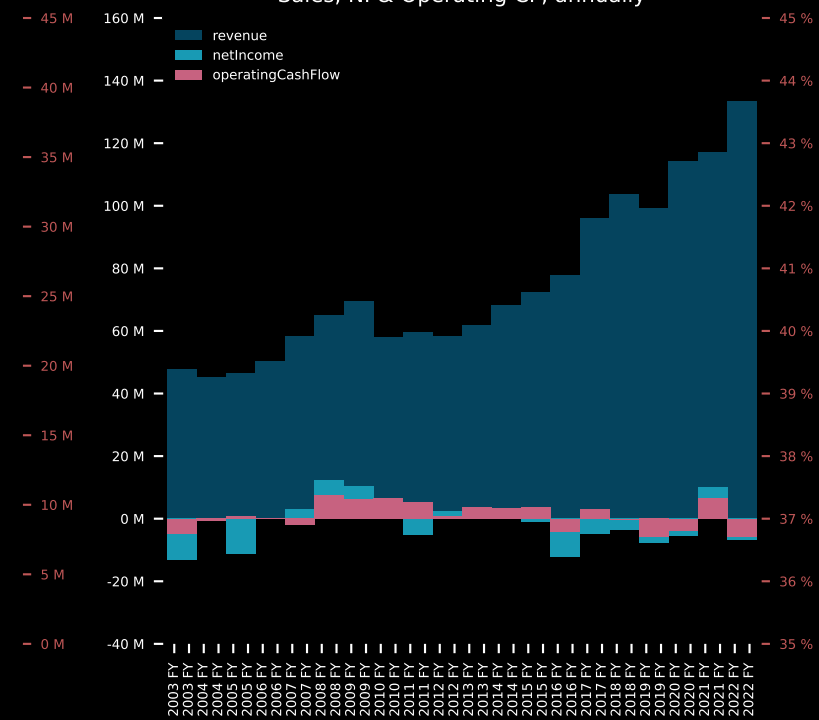
Sales, NI & Operating CF, quarterly



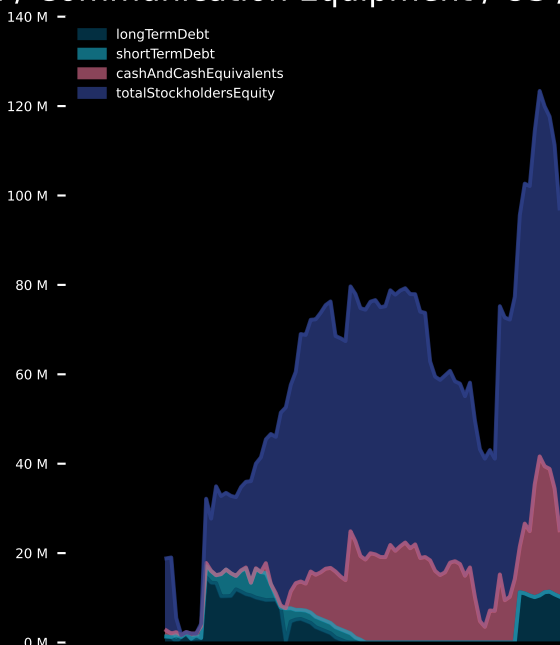
Price vs shares outstanding, quarterly



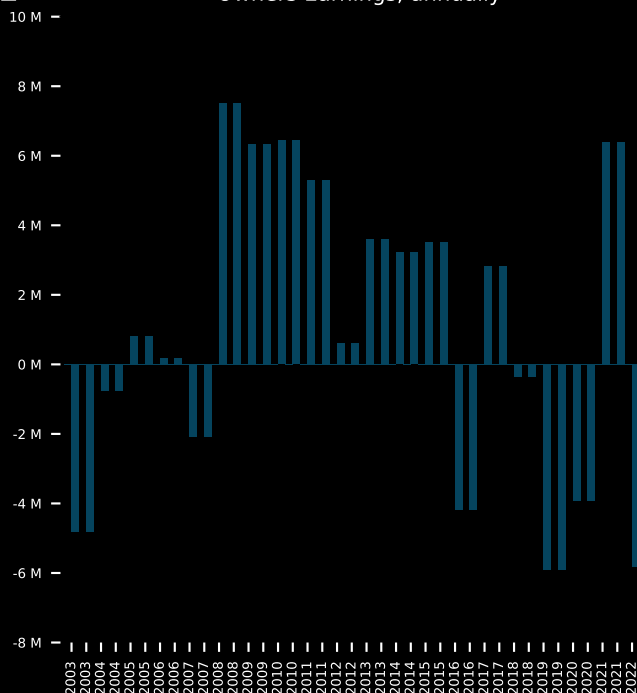
Sales, NI & Operating CF, annually



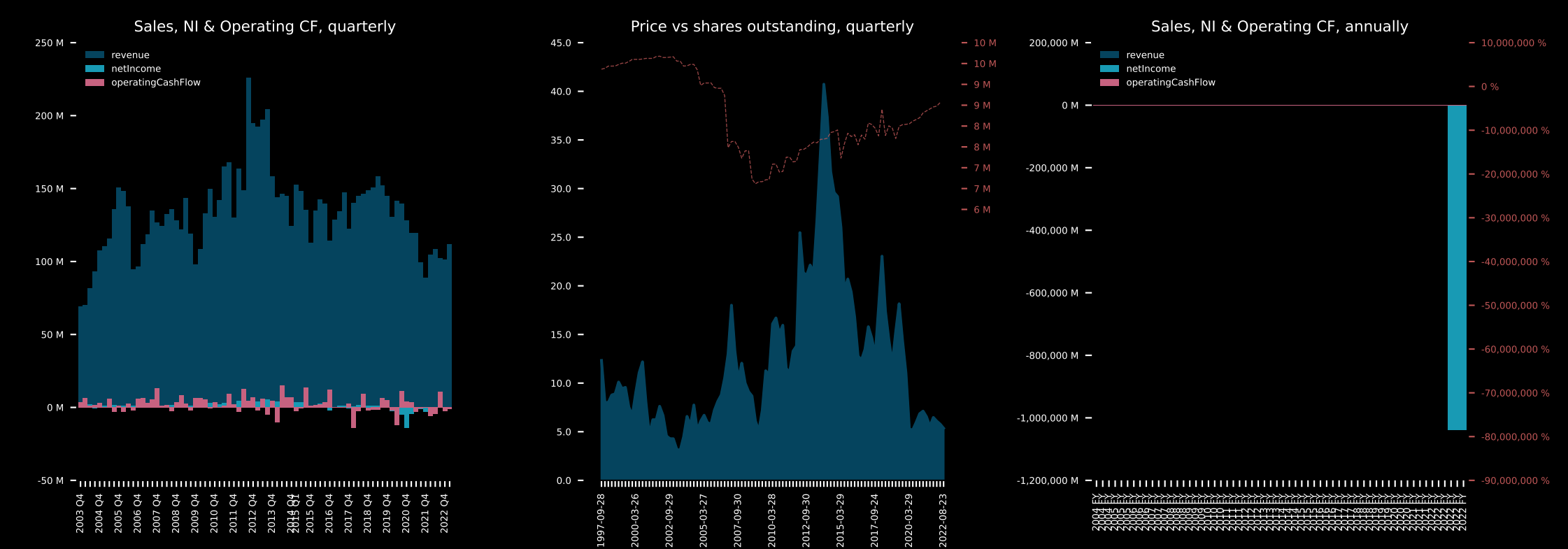
TI / Communication Equipment / US / 2022-08-22



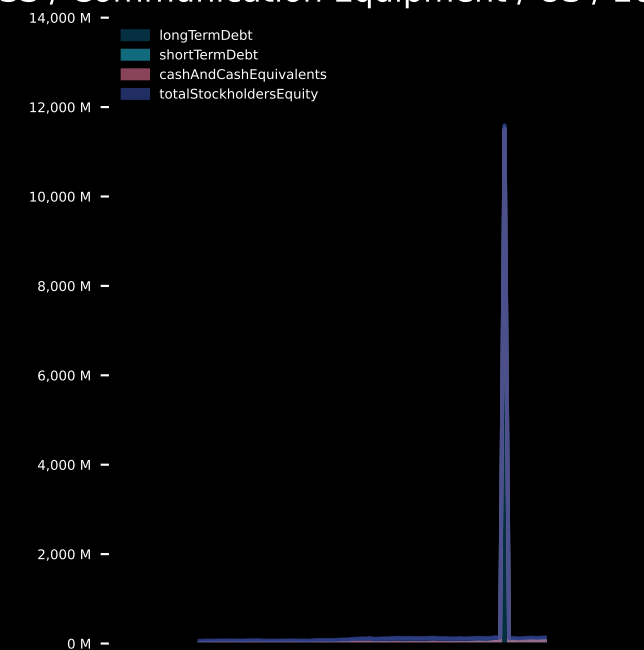
Owners Earnings, annually



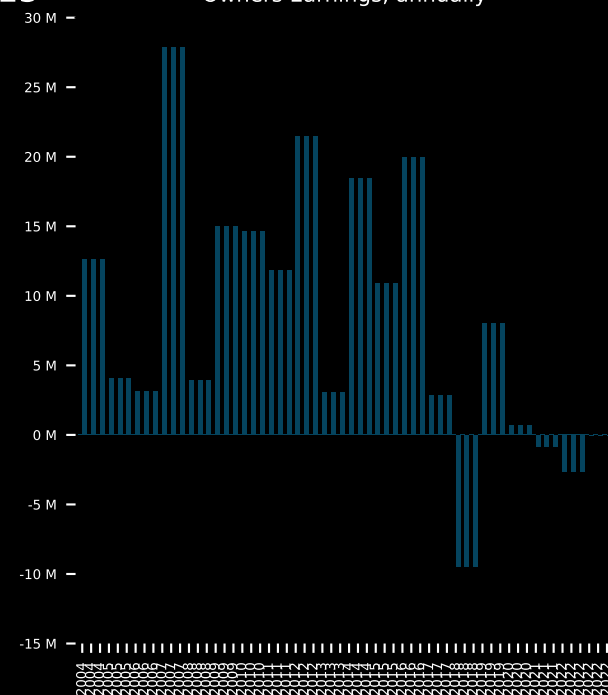
Iteris, Inc. provides intelligent transportation systems technology solutions in North America, Europe, South America, and Asia. The company offers smart mobility infrastructure solutions include traveler information systems, transportation performance measurement software, traffic analytics software, transportation operations software, transportation-related data sets, advanced sensing devices, managed services, traffic engineering services, and mobility consulting services. Its products include ClearGuide, ClearRoute, Commercial Vehicle Operations, BlueArgus, TrafficCarma, Vantage Apex, Vantage Fusion, Vantage Next, VantagePegasus, VantageRadius, Vantage Vector, Velocity, SmartCycle, SmartCycle Bike Indicator, SmartSpan, VersiCam, PedTrax, and P-Series products. The company also sells original equipment manufacturer products for the traffic intersection markets, such as traffic signal controllers and traffic signal equipment cabinets. In addition, it offers traffic management centers design, staffing, and operations services; traffic engineering and mobility consulting services



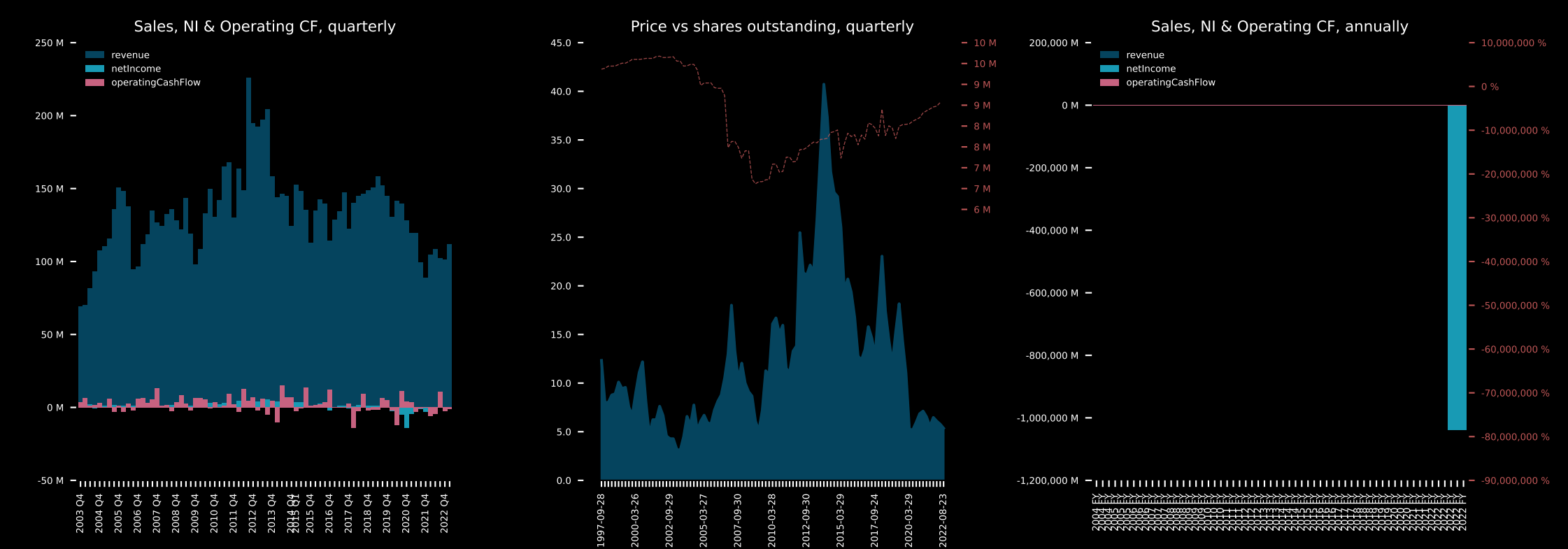
SS / Communication Equipment / US / 2022-08-23



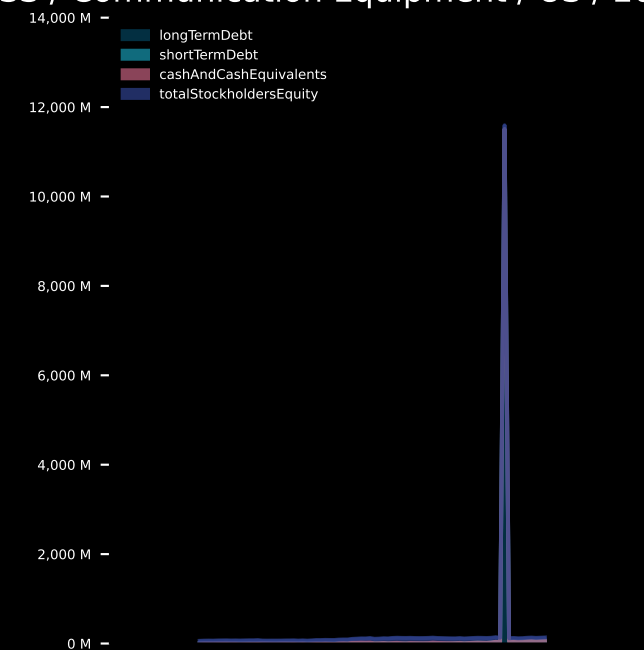
Owners Earnings, annually



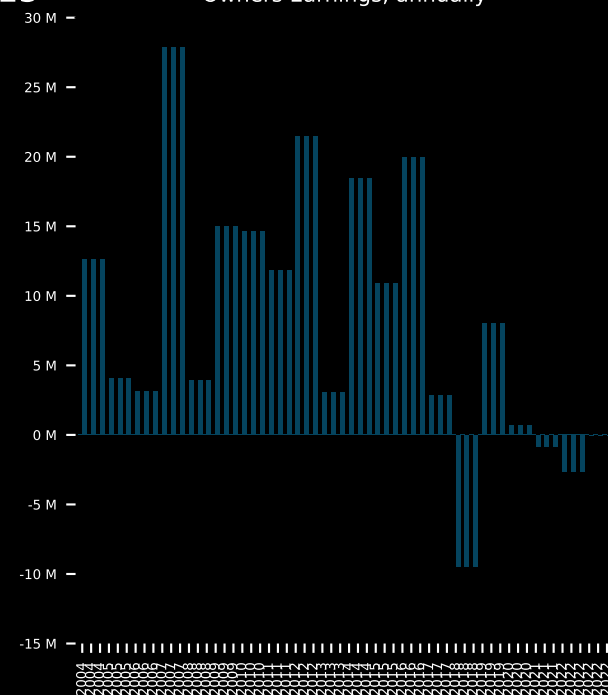
TESSCO Technologies Incorporated manufactures and distributes technology products and solutions for wireless infrastructure market in the United States and internationally. It operates through two segments, Carrier and Commercial. The company offers base station infrastructure products, including base station antennas, cable and transmission lines, small towers, lightning protection devices, connectors, power systems, enclosures, grounding products, jumpers, miscellaneous hardware products, and mobile antennas to build, repair, and upgrade wireless broadband systems. It also provides network systems products, such as fixed and mobile broadband radio equipment, wireless networking filtering and distributed antenna systems, two-way radios, and security and surveillance products. In addition, the company offers installation, test, and maintenance products comprising analysis equipment; and various frequency, voltage, and power-measuring devices, as well as tools, hardware, GPS and safety products, and replacement and component parts and supplies to install, tune, and maintain wireless



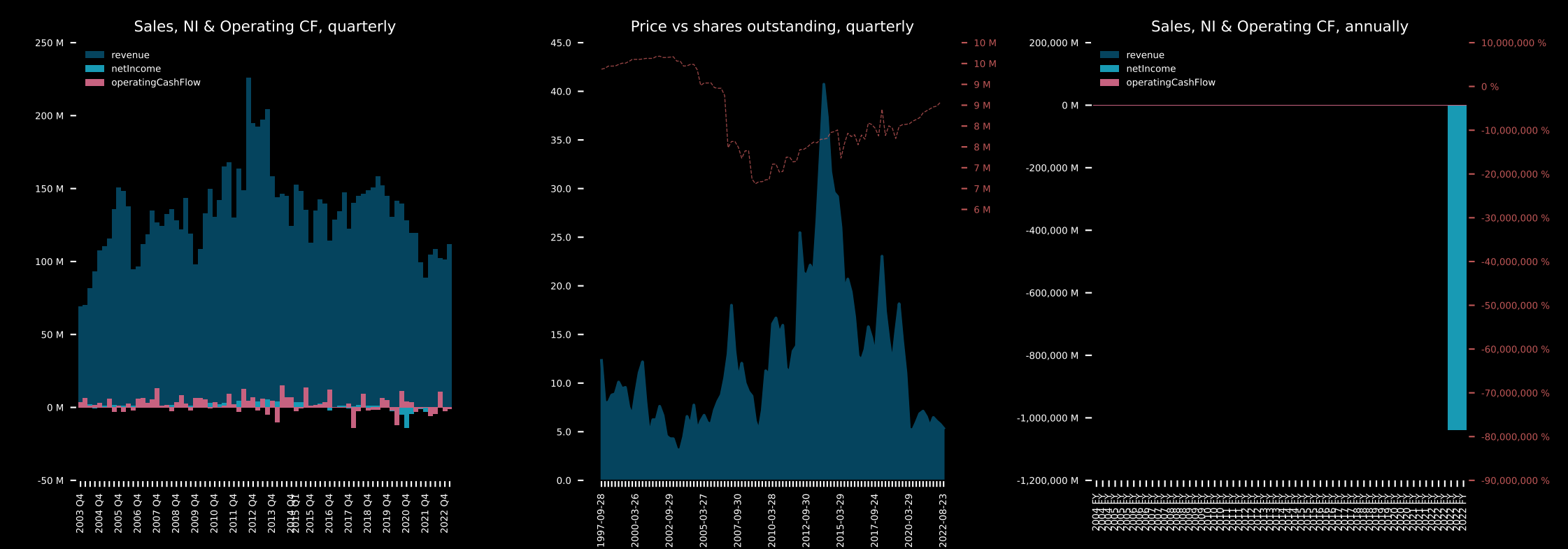
SS / Communication Equipment / US / 2022-08-23



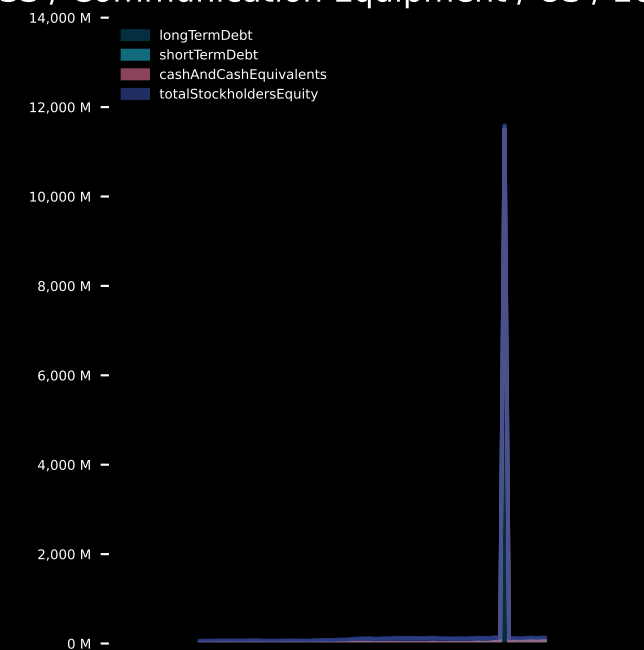
Owners Earnings, annually



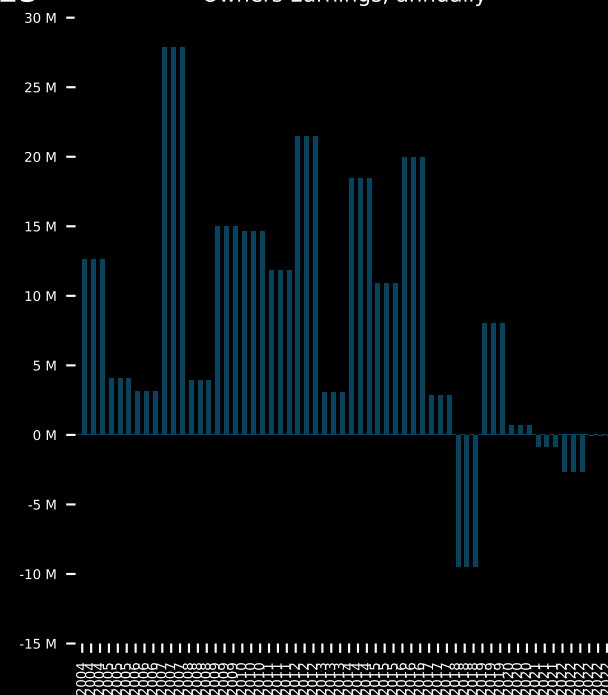
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SS / Communication Equipment / US / 2022-08-23



Owners Earnings, annually

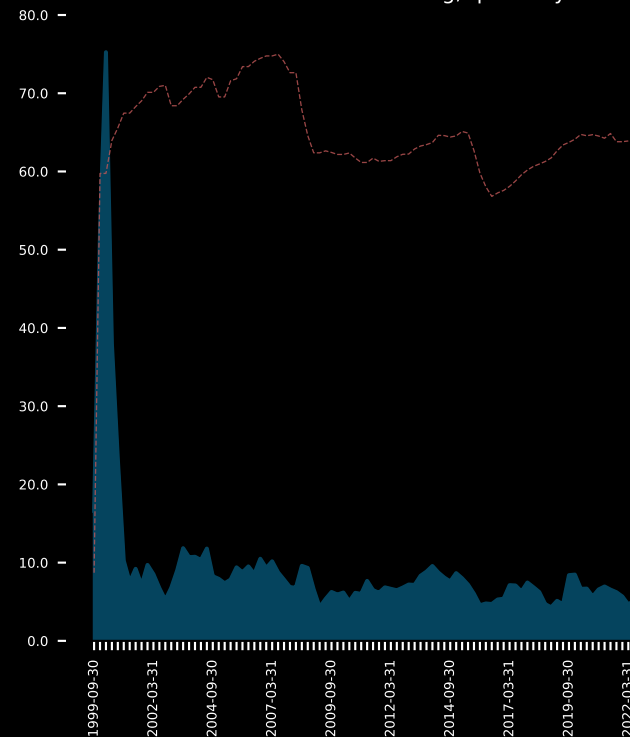


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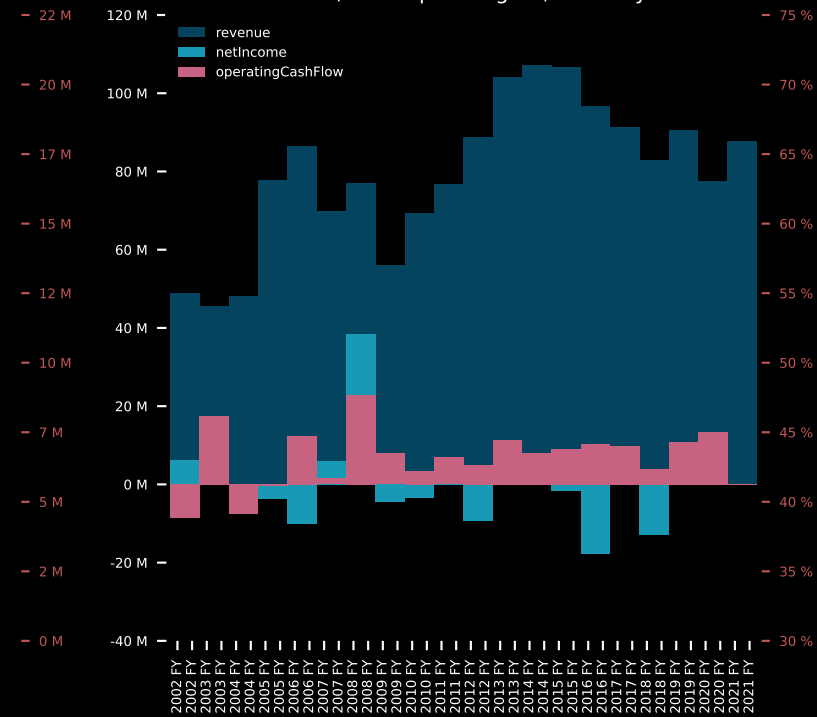
Sales, NI & Operating CF, quarterly



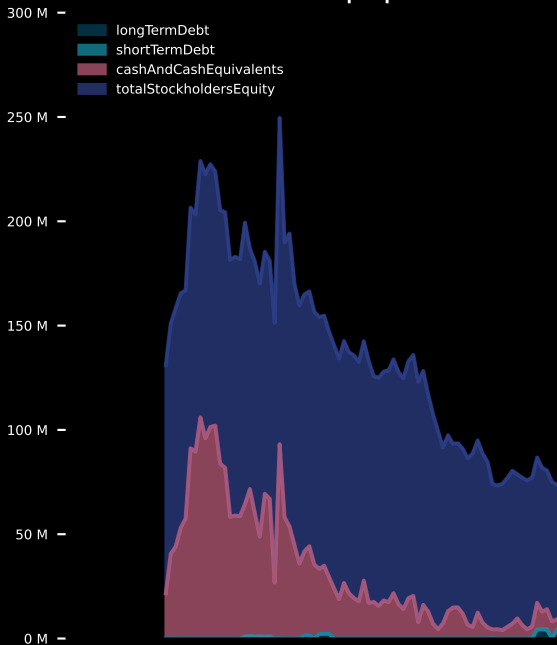
Price vs shares outstanding, quarterly



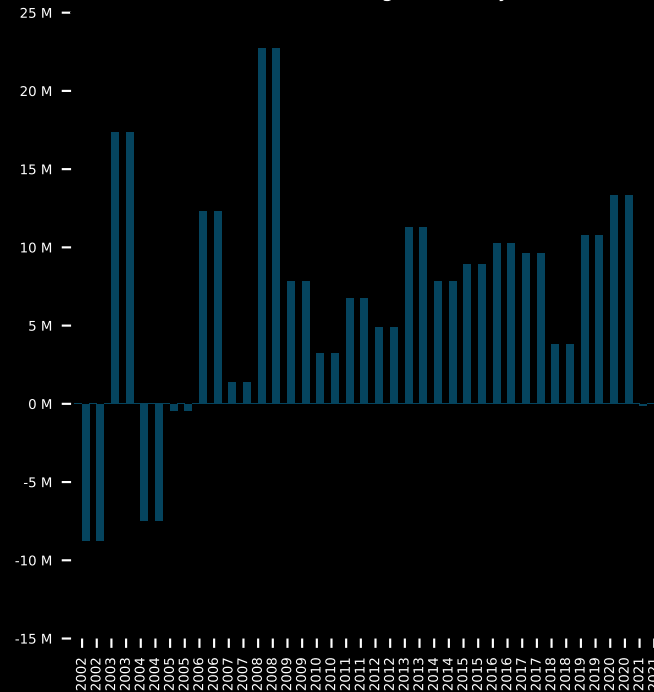
Sales, NI & Operating CF, annually



CTI / Communication Equipment / US / 2022-08-23



Owners Earnings, annually

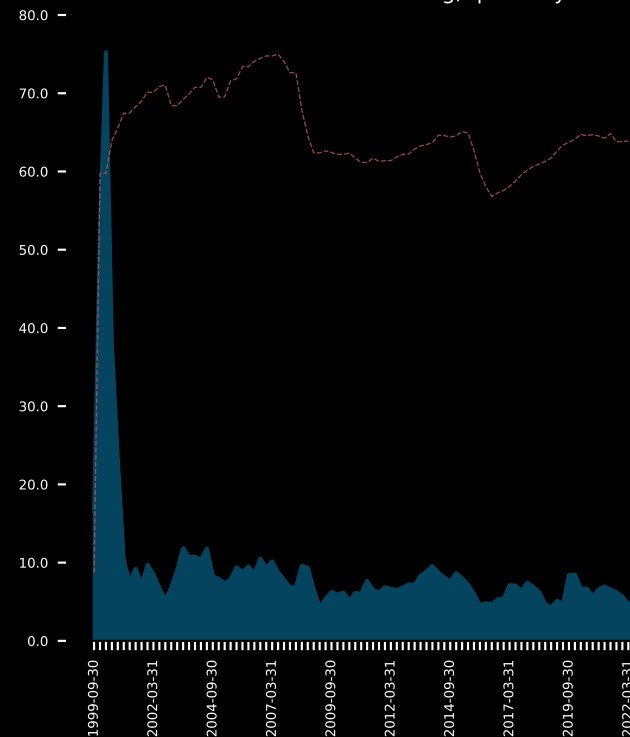


PCTEL, Inc., together with its subsidiaries, provides industrial Internet of Thing devices (IoT), antenna systems, and test and measurement solutions worldwide. The company designs and manufactures precision antennas and industrial IoT devices that are deployed in small cells, enterprise Wi-Fi access points, fleet management and transit systems, and in equipment and devices for the industrial IoT. Its antenna portfolio includes Wi-Fi, Bluetooth, land mobile radio, tetra, global navigation satellite systems, cellular, industrial, scientific, medical, long range, and combination antenna solutions for used in public safety and military communications, utilities and energy, precision agriculture, smart traffic management, electric vehicle charging stations, embedded vehicles, forestry machinery, and off-road vehicles, as well as offers engineering design services. The company's industrial IoT devices include access points, radio modules, sensor communication modules, and wireless communication sensors for used in utilities and smart grid, oil and gas, manufacturing, logistics, industrial automation, smart metering, and asset tracking markets. It also

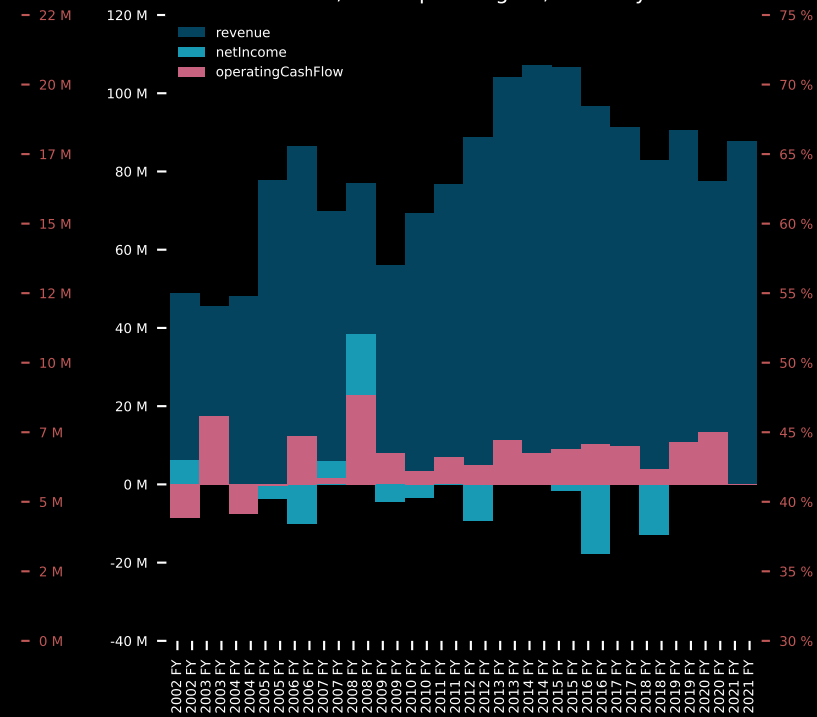
Sales, NI & Operating CF, quarterly



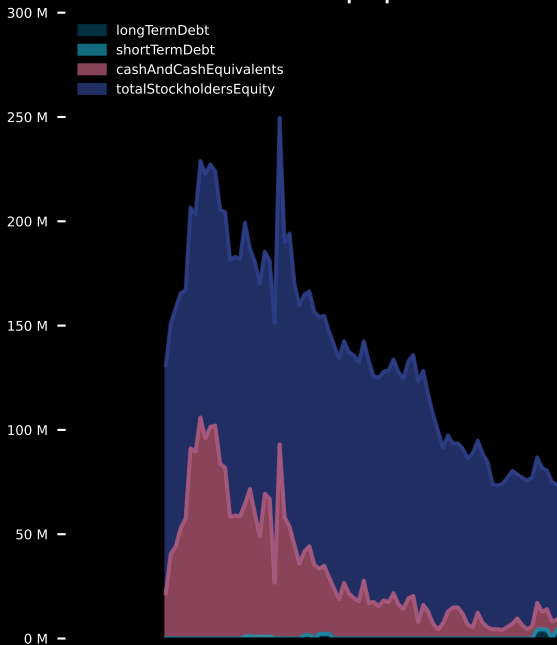
Price vs shares outstanding, quarterly



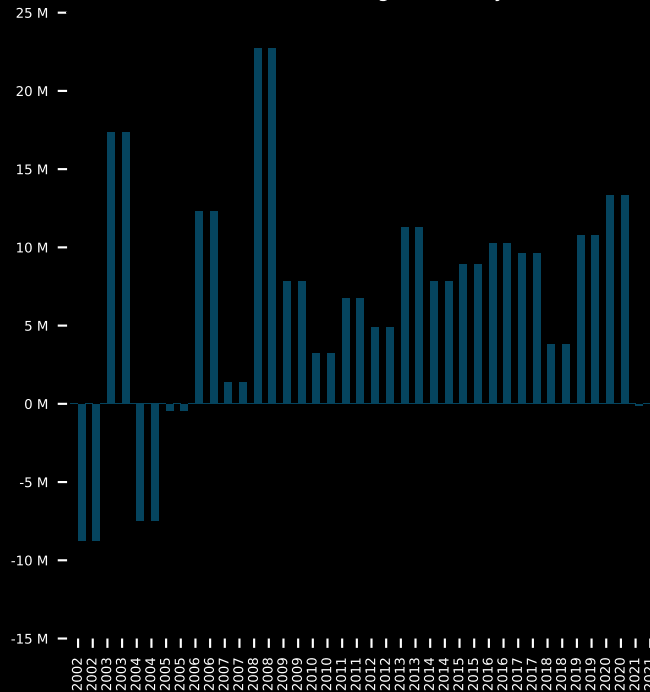
Sales, NI & Operating CF, annually



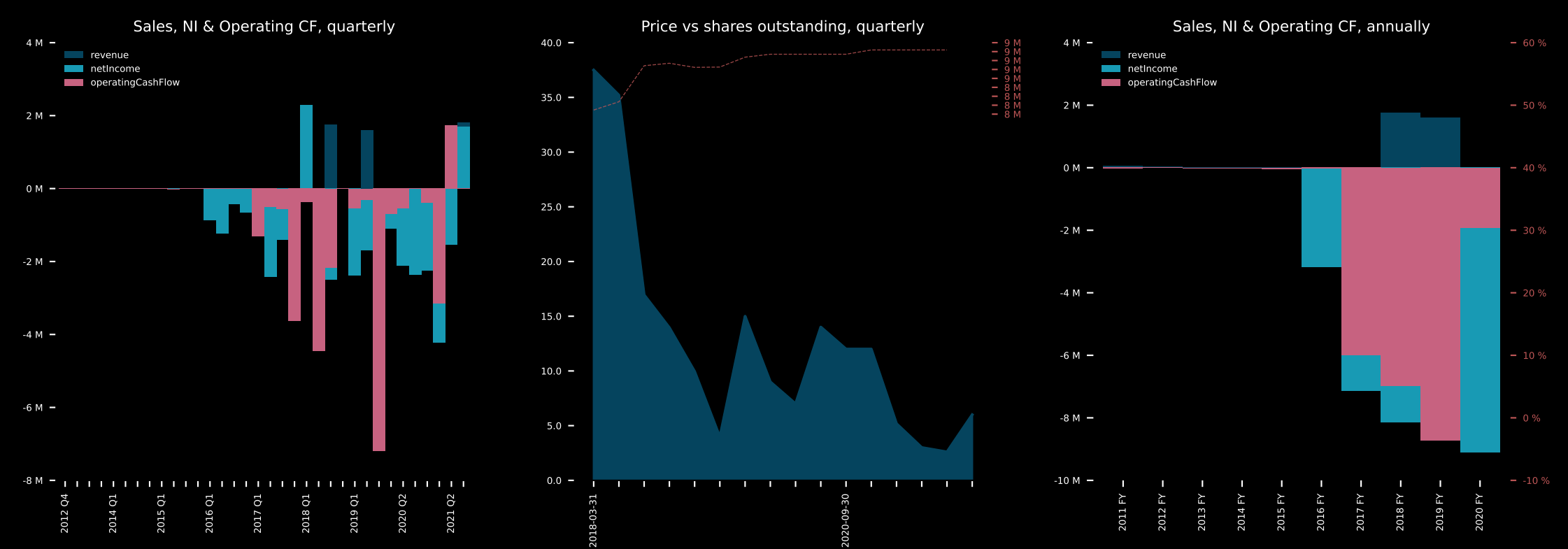
CTI / Communication Equipment / US / 2022-08-23



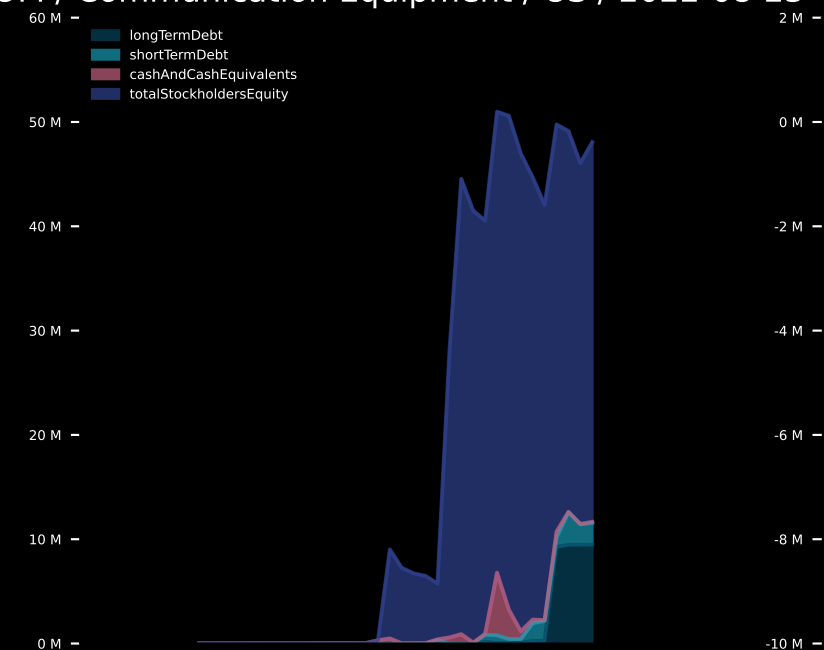
Owners Earnings, annually



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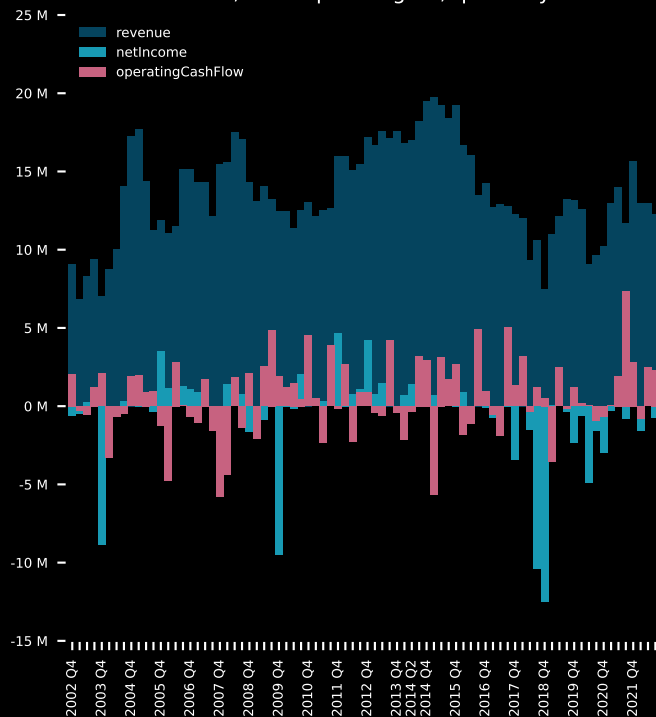


DM / Communication Equipment / US / 2022-08-23

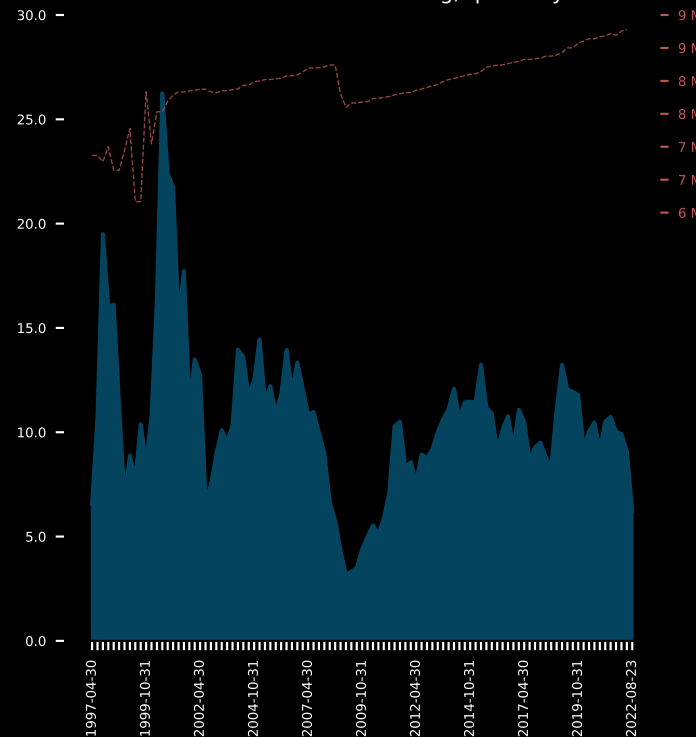


Aerkomm Inc., together with its subsidiaries, focuses on providing in-flight entertainment and connectivity solutions in the Asian Pacific region. It intends to offer airline passengers with broadband in-flight service options, such as Wi-Fi, cellular, movies, gaming, live TV, and music. The company also focuses on providing built-in in-flight entertainment systems, such as seat-back displays, as well as on passengers' personal devices. Aerkomm Inc. is based in Fremont, California.

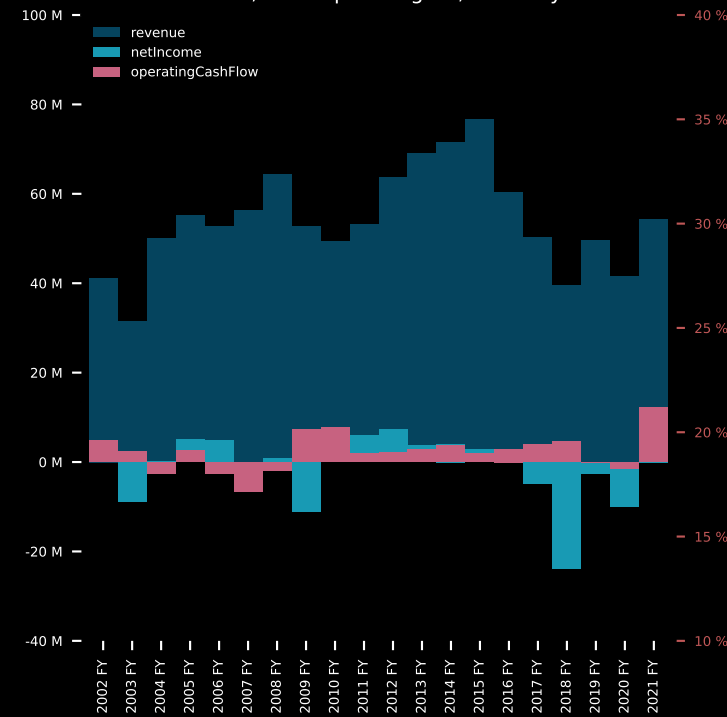
Sales, NI & Operating CF, quarterly



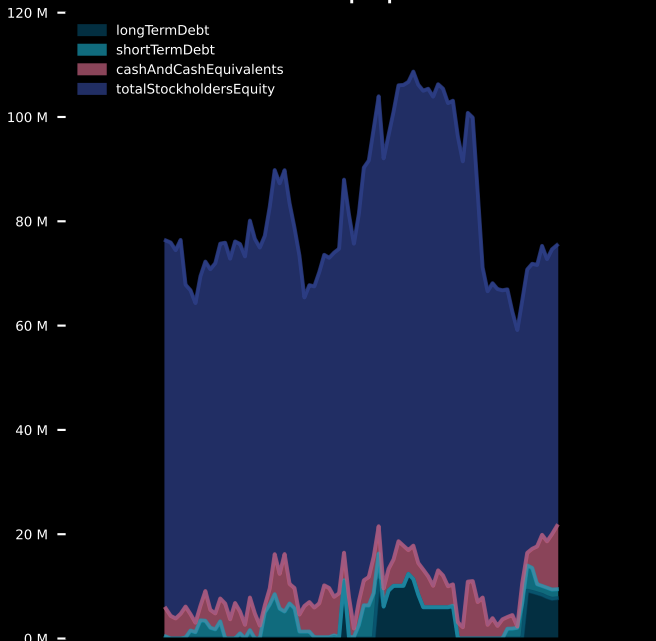
Price vs shares outstanding, quarterly



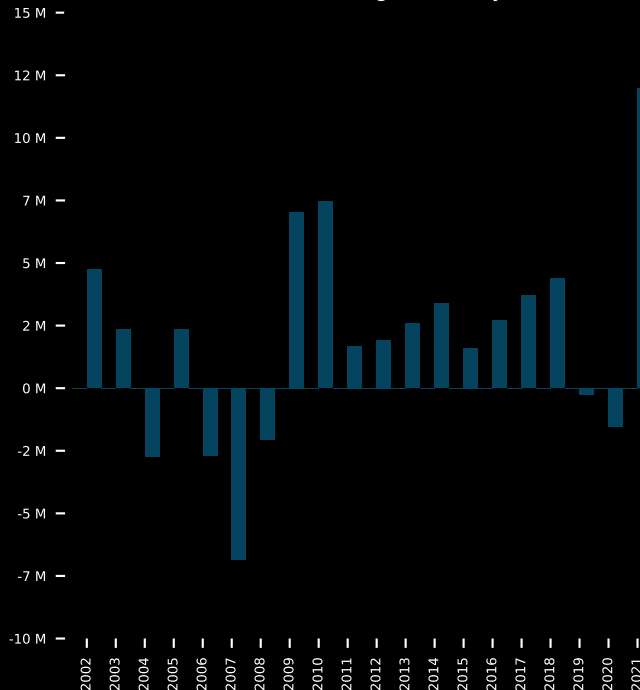
Sales, NI & Operating CF, annually



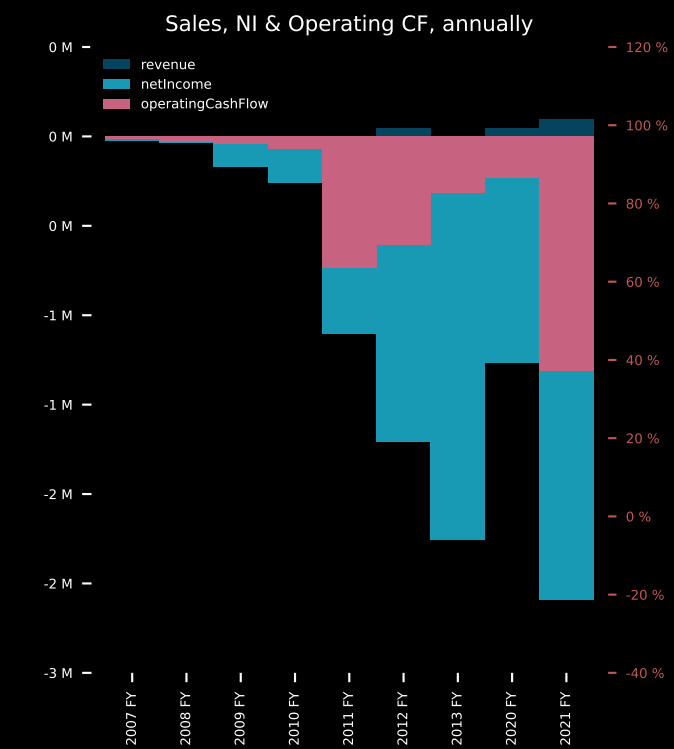
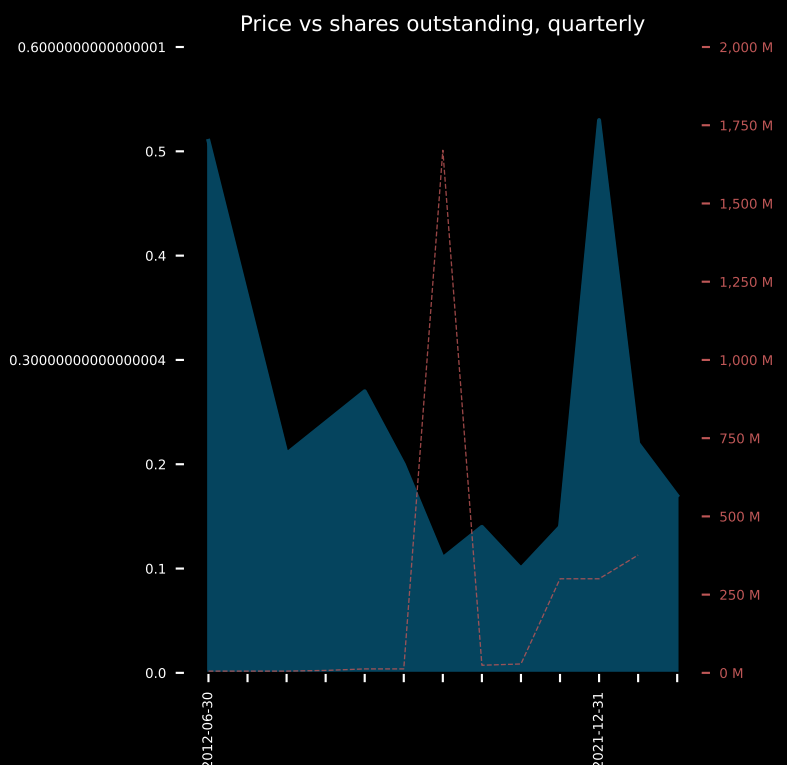
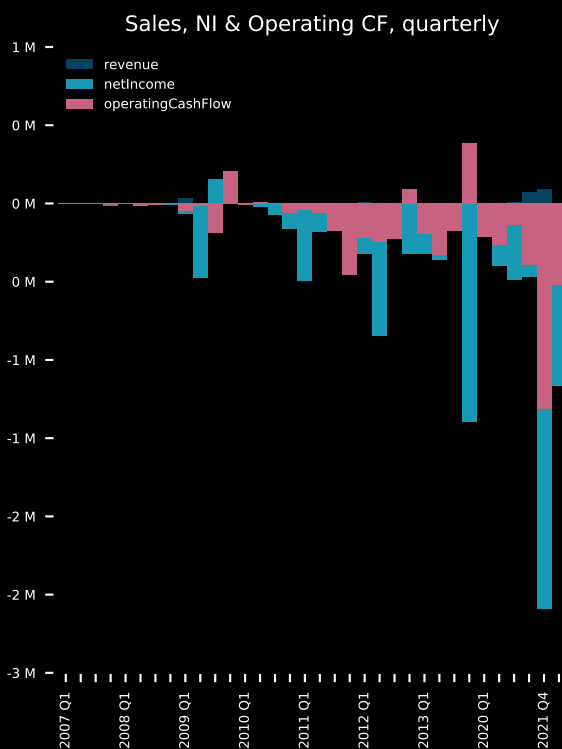
EIM / Communication Equipment / US / 2022-08-23



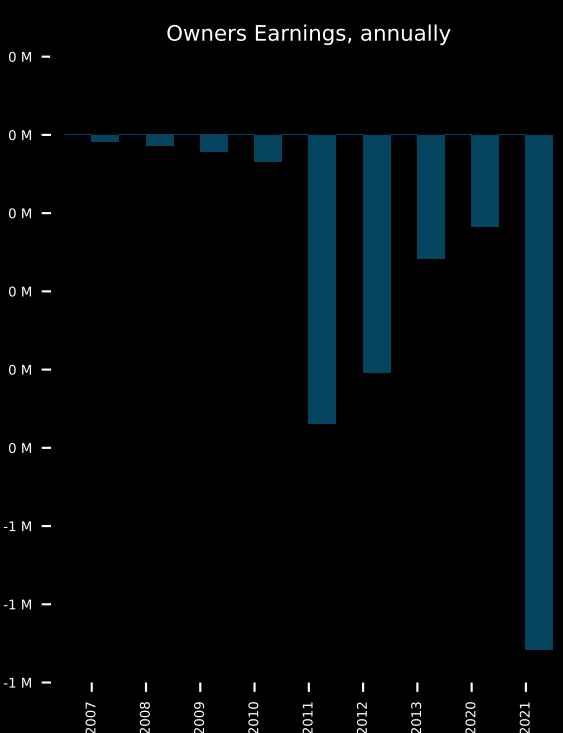
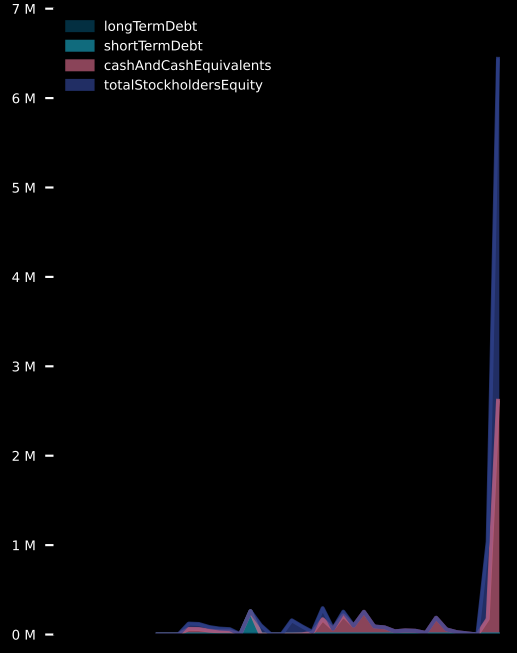
Owners Earnings, annually



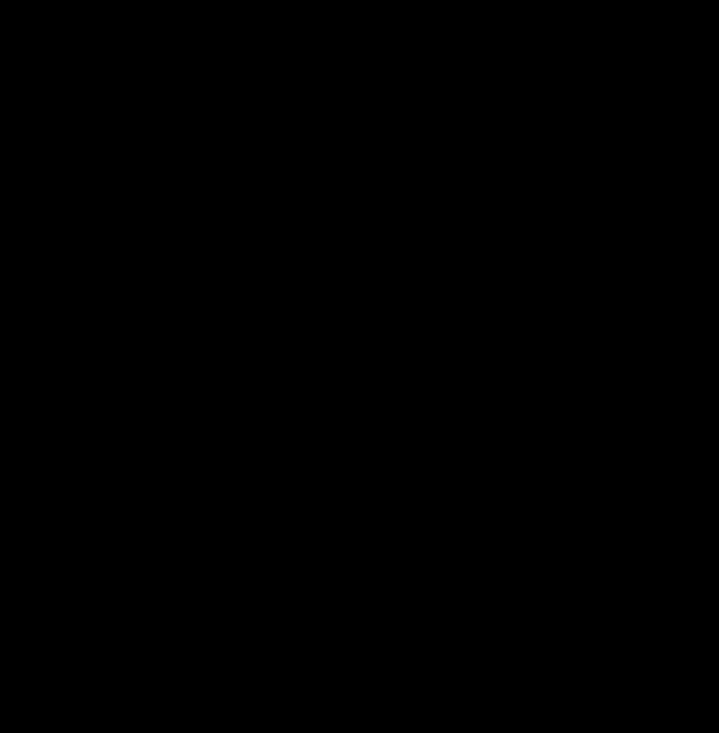
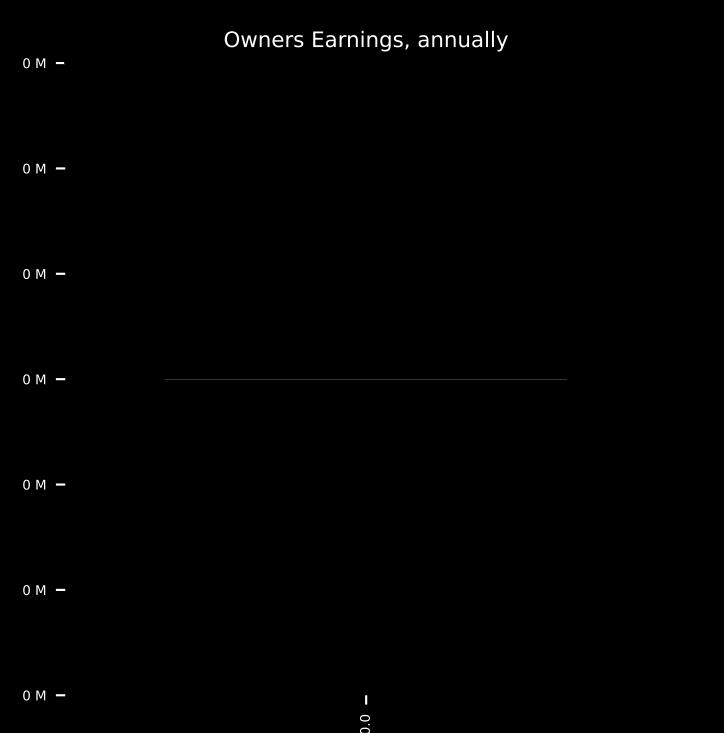
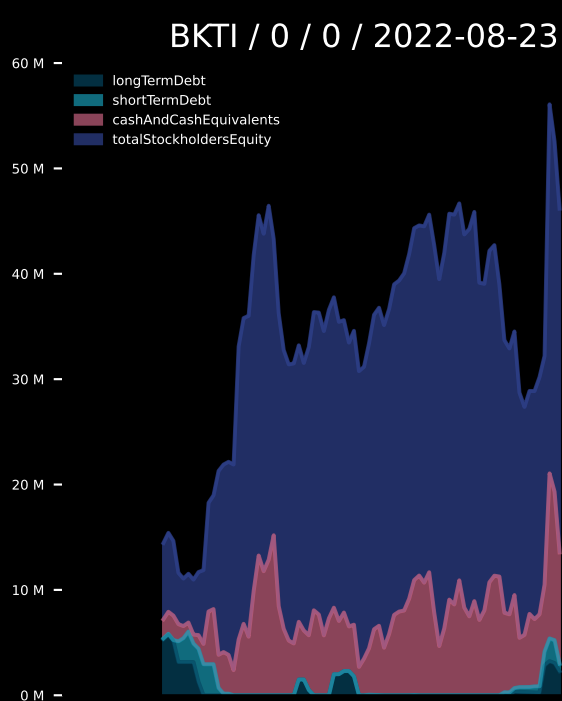
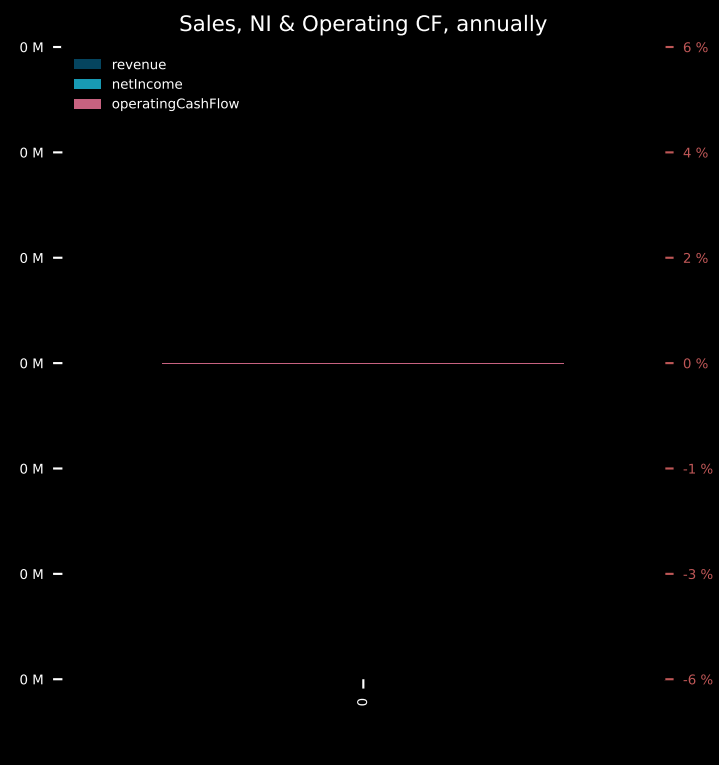
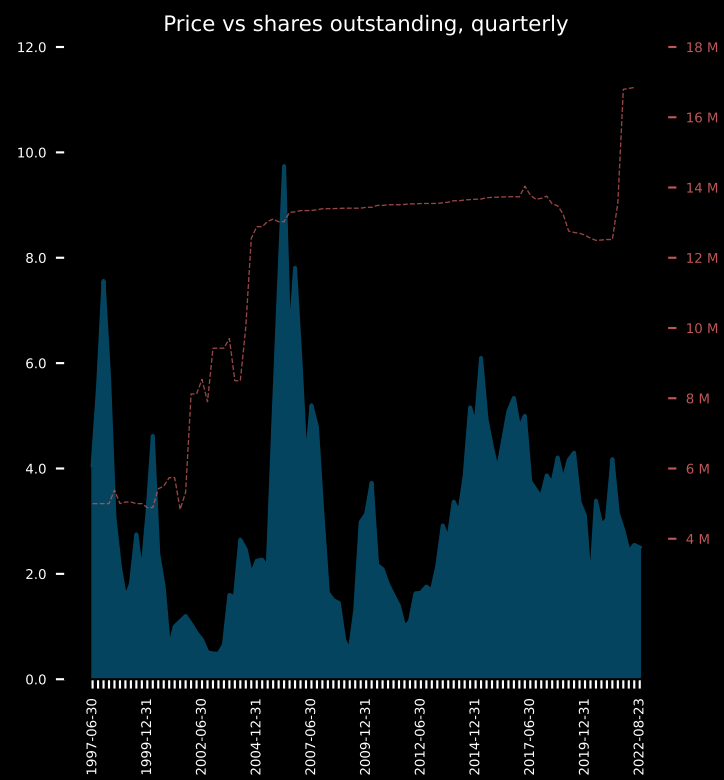
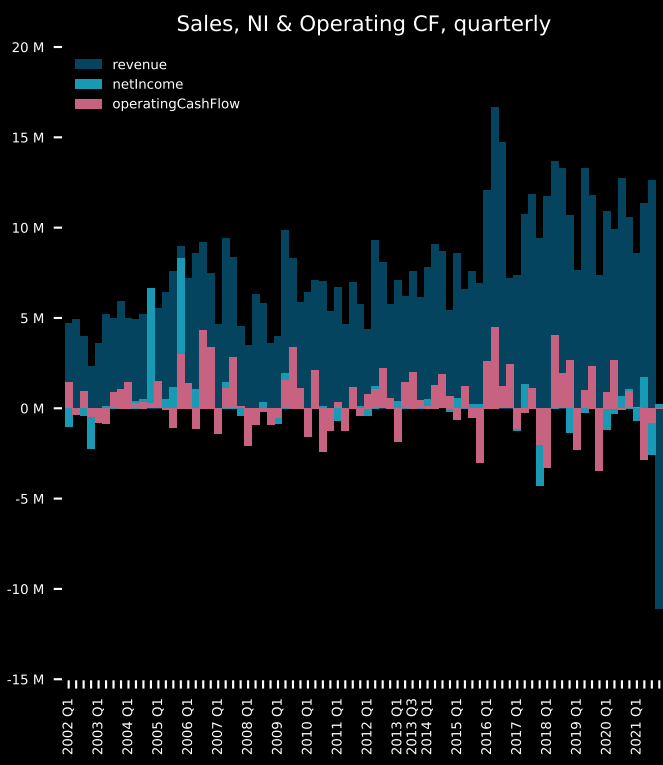
Frequency Electronics, Inc., together with its subsidiaries, designs, develops, manufactures, and sells precision time and frequency control products and components for microwave integrated circuit applications. It operates through two segments, FEI-NY and FEI-Zyfer. The FEI-NY segment offers precision time, frequency generation, and synchronization products and subsystems used in communication satellites, terrestrial cellular telephone, or other ground-based telecommunication stations; and other components and systems for the United States military. The FEI-Zyfer segment designs, develops, and manufactures products for precision navigation and timing primarily incorporating global positioning system technologies into radar systems, airborne SIGINT/COMINT platforms, information networks, test equipment, military command and control terminals, and satellite ground stations. The company's products are used in commercial, government satellite payload systems, secure communications, command, control, communication, computer, intelligence, security and reconnaissance, and electronic warfare applications for the United States military.



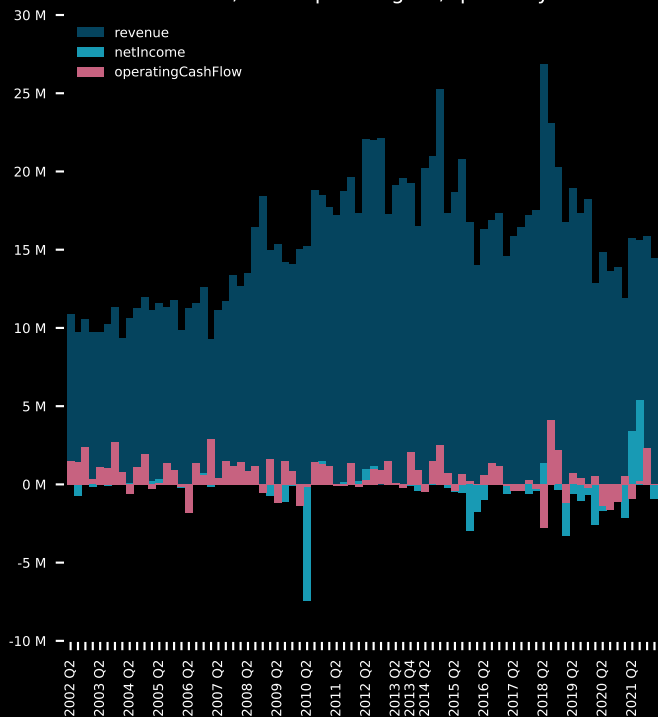
/ Communication Equipment / US / 2022-08-23



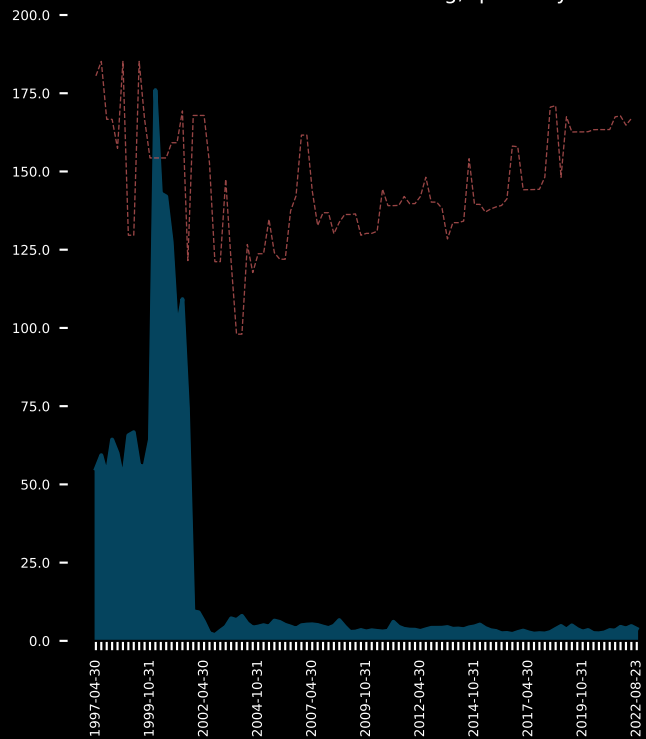
Cytta Corp. develops, markets, and distributes various video streaming products and services. The company's products include Superior Utilization of Processing Resources, a secure video compression technology, that delivers video streaming for airborne intelligence, surveillance, and reconnaissance applications; and Incident Global Area Network, an IP-software multi-channel/multi-access communications and tactical conferencing solution for professional and mission critical application, which offers low latency, multidirectional communications, and integrating multiple video and voice devices, including video cameras, smartphones, tablets, computers, bodycams, and 2-way radios for police, firefighters, first responders, emergency medical workers, industry, environmental and emergencies, security, and military and related command centers. It also develops video compression-based software and hardware products. In addition, the company provides software maintenance plans comprising onsite troubleshooting, software maintenance releases, and software upgrades, as well as phone, e-mail, and back-office technical support.



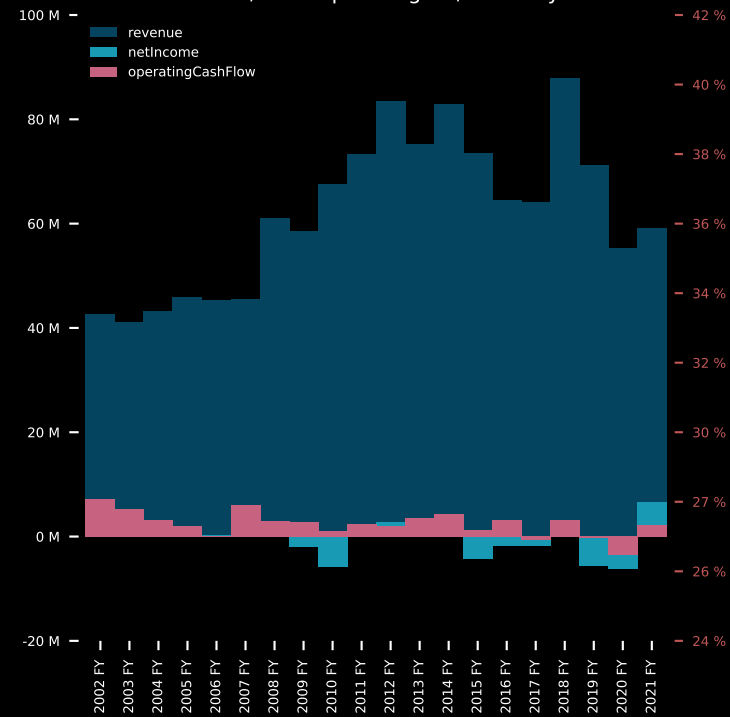
Sales, NI & Operating CF, quarterly



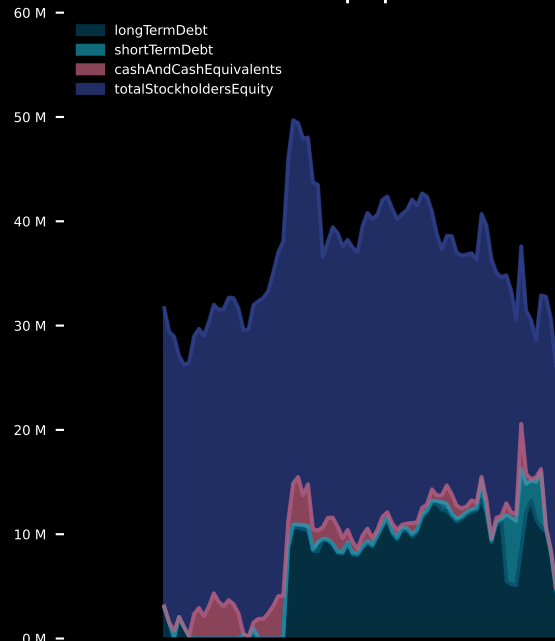
Price vs shares outstanding, quarterly



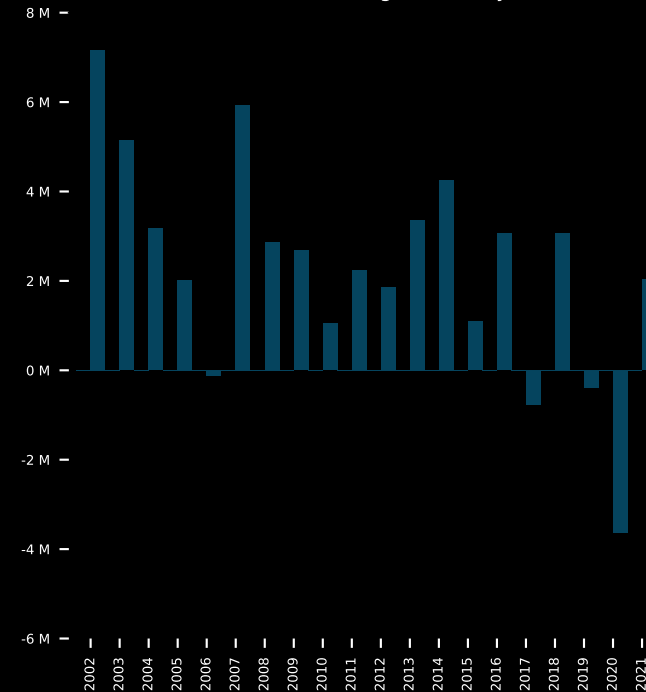
Sales, NI & Operating CF, annually



CC / Communication Equipment / US / 2022-08-23



Owners Earnings, annually

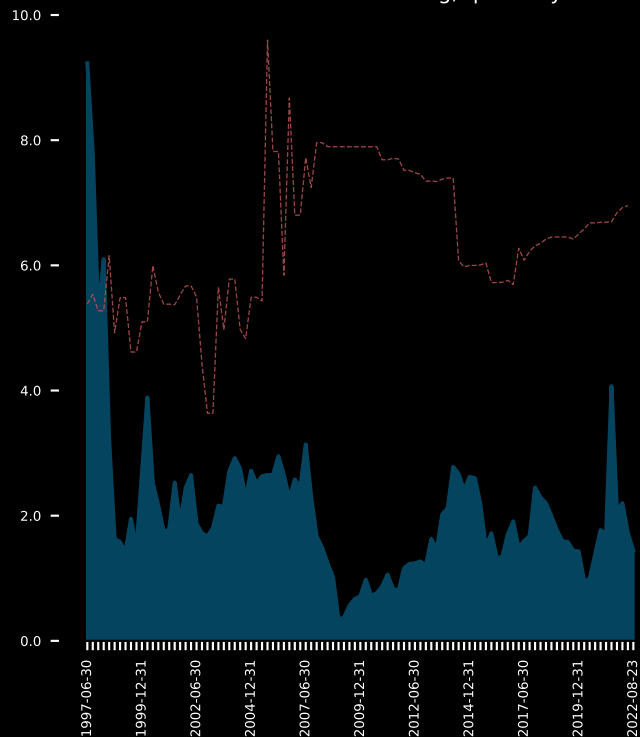


Optical Cable Corporation, together with its subsidiaries, manufactures and sells fiber optic and copper data communications cabling and connectivity solutions primarily for the enterprise market in the United States and internationally. The company provides fiber optic and hybrid cables for high bandwidth transmission of data, video, and voice communications; and copper datacom cables, including unshielded and shielded twisted pair constructions. Its fiber optic connectivity products include fiber optic wall mounts, cabinet mount and rack mount enclosures, pre-terminated fiber optic enclosures, fiber optic connectors, splice trays, fiber optic jumpers, plug and play cassette modules, pre-terminated fiber optic cable assemblies, adapters, and accessories; and copper connectivity products comprising category compliant patch panels, jacks, plugs, patch cords, faceplates, surface mounted boxes, distribution and multi-media boxes, copper rack mount and wall mount enclosures, cable assemblies, cable organizers, and other wiring products for equipment rooms, telecommunications closets, data centers, and distribution and telecommunications facilities.

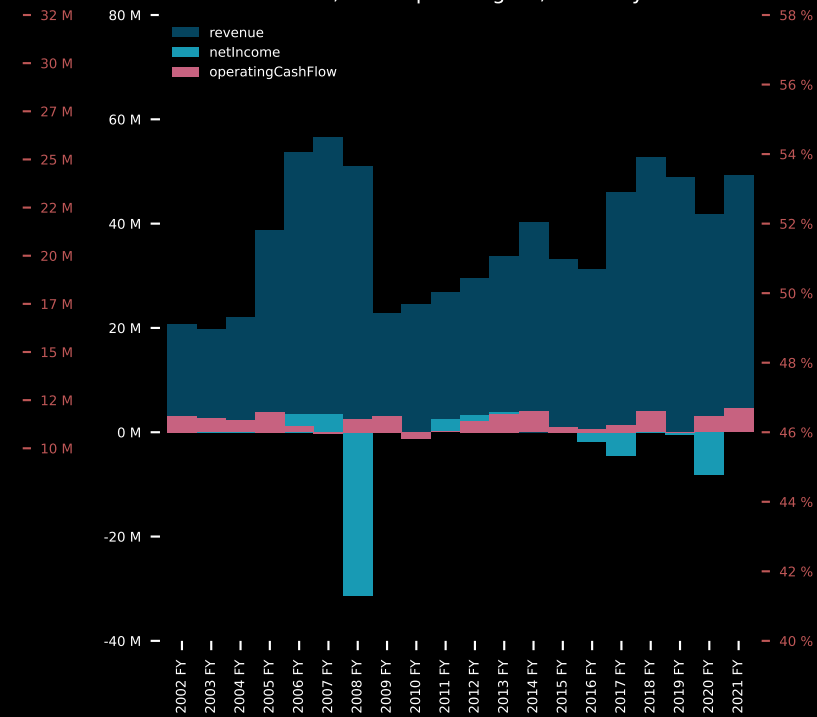
Sales, NI & Operating CF, quarterly



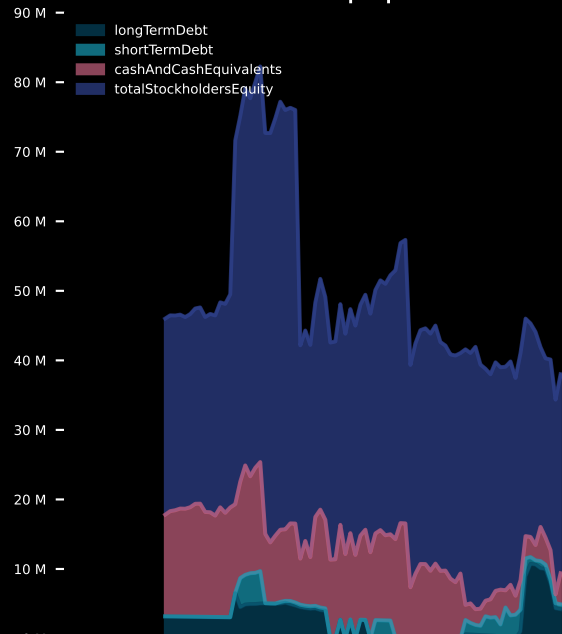
Price vs shares outstanding, quarterly



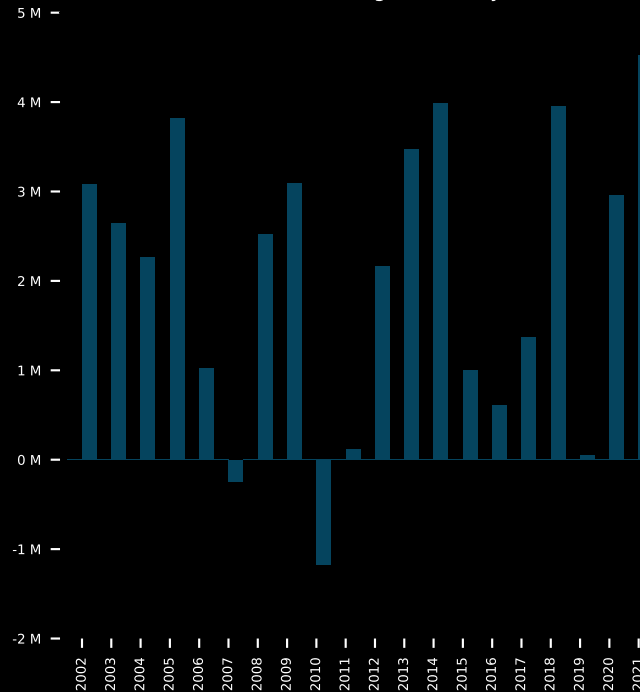
Sales, NI & Operating CF, annually



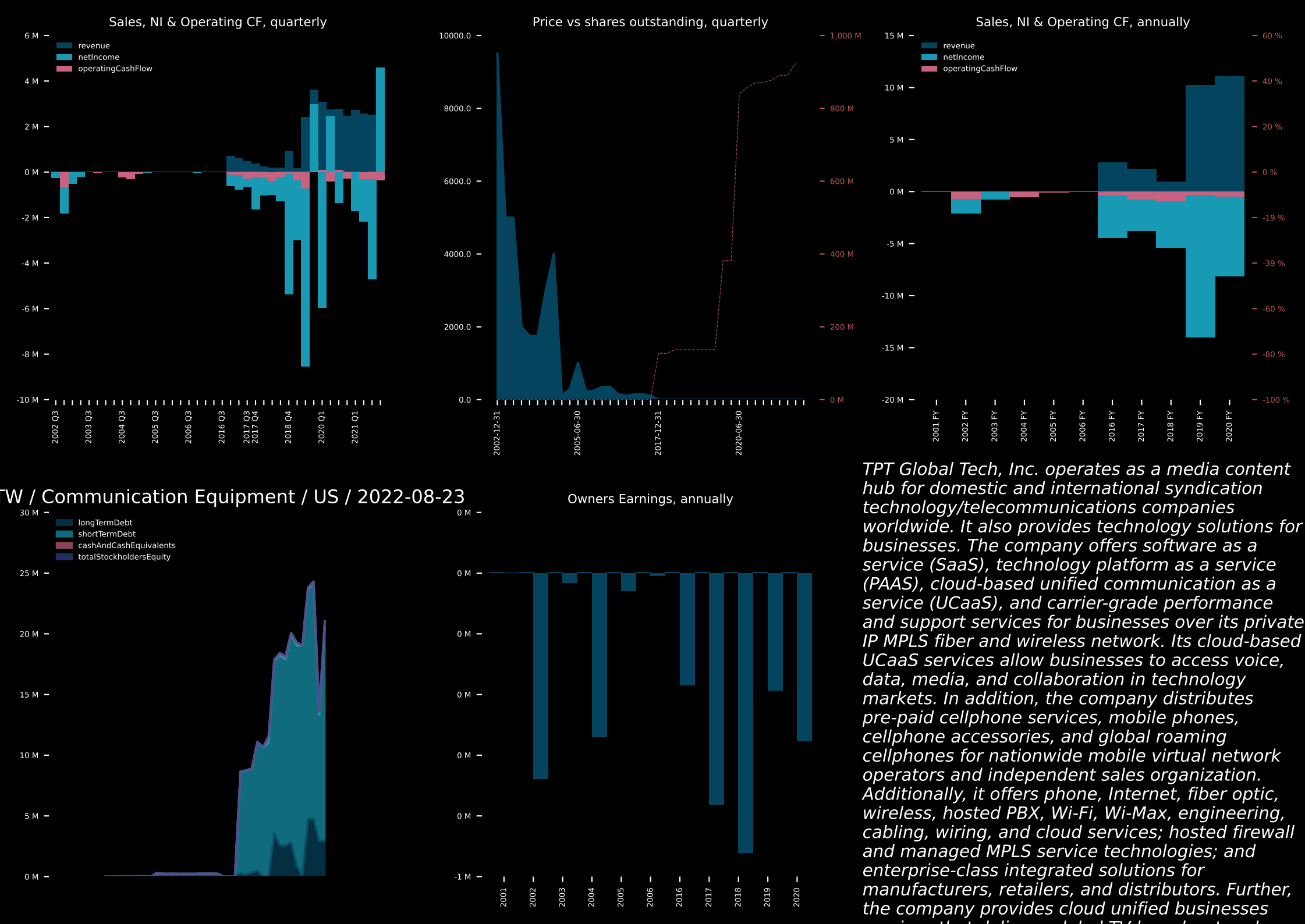
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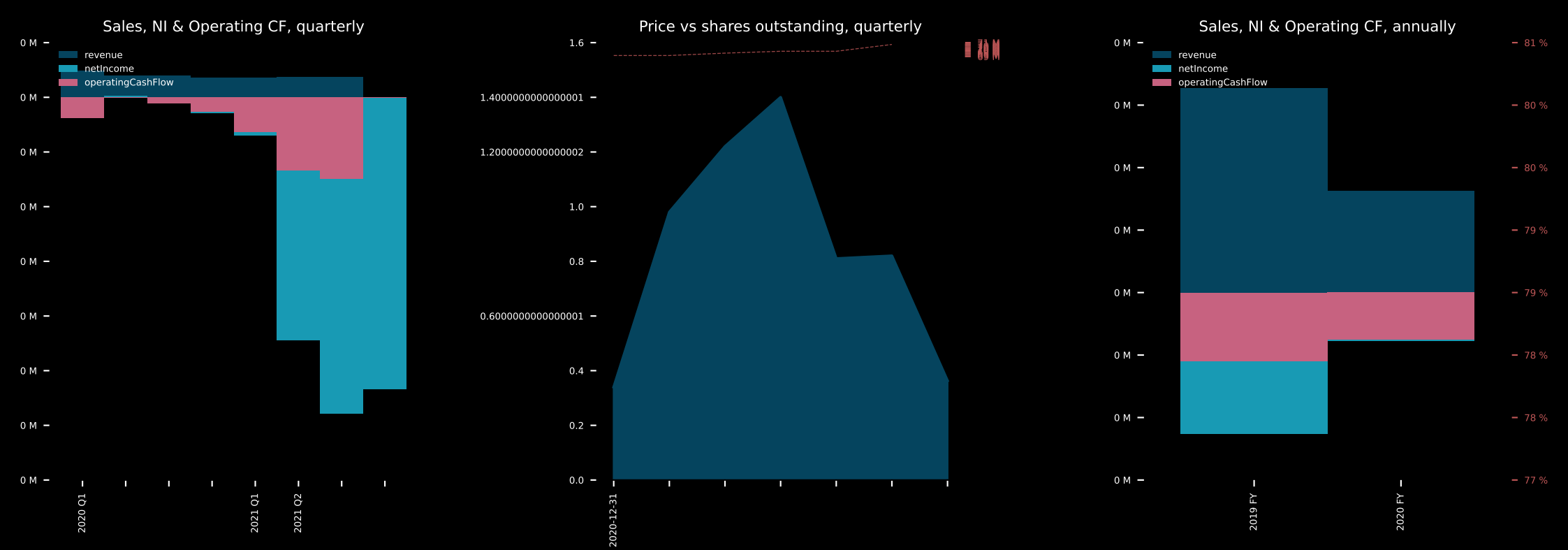


Owners Earnings, annually

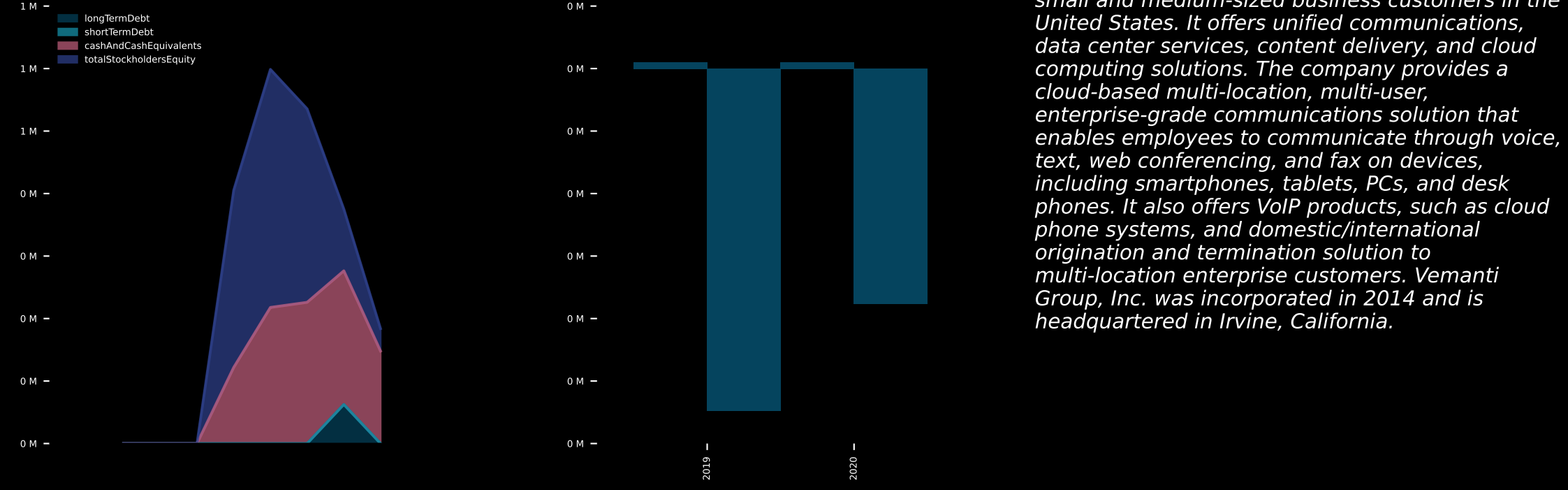


Wireless Telecom Group, Inc., together with its subsidiaries, designs, develops, manufactures, and markets radio frequency (RF) and microwave devices in the Americas, Europe, the Middle East, Africa, and the Asia Pacific. The company also engages in development, testing, and deployment of wireless technology. In addition, it offers power meters and sensors, voltmeters, and audio and modulation analyzers for radar, avionics, electronic warfare, electromagnetic interference compatibility, and satellite and wireless communications applications; and noise generation instruments, calibrated noise sources, noise modules, and diodes. Further, the company provides phase noise analyzers and signal generators; embedded signal processing and radio frequency modules; and long-term evolution physical layer and stack software for mobile network and related applications. It serves wireless carriers, aerospace and defense companies, military and government agencies, satellite communication companies, network equipment manufacturers, semiconductor companies, system integrators, tower companies, neutral host

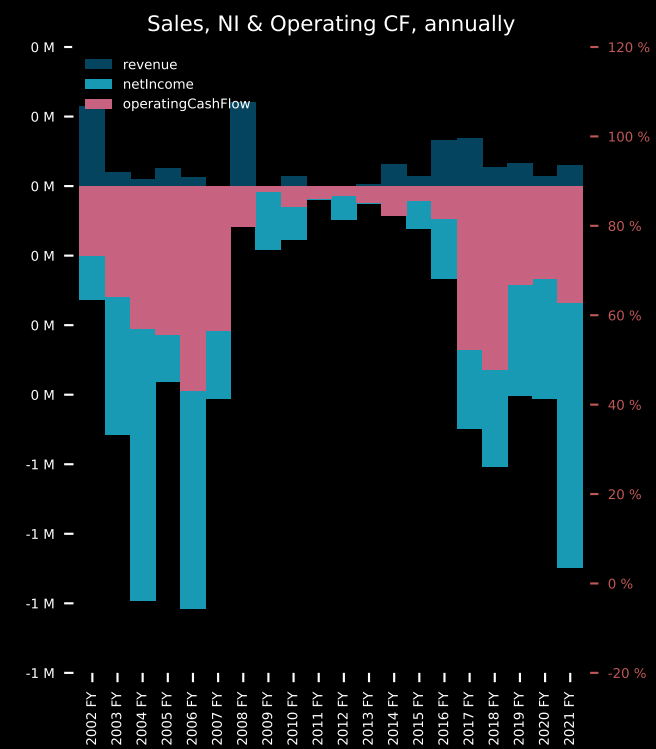




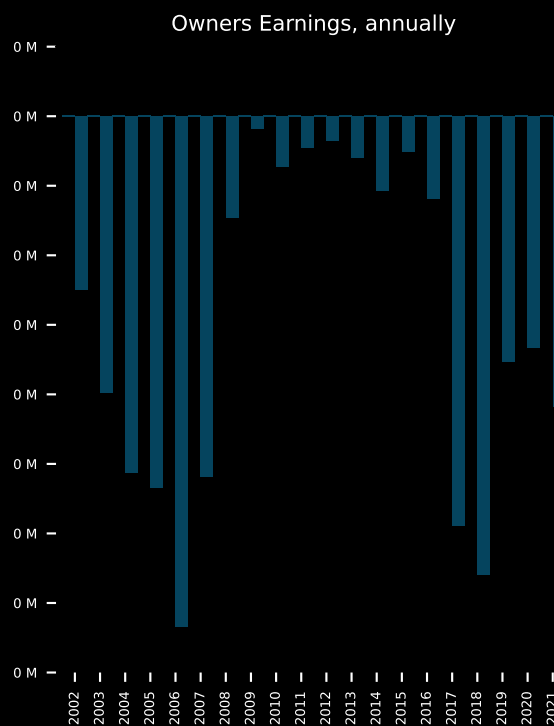
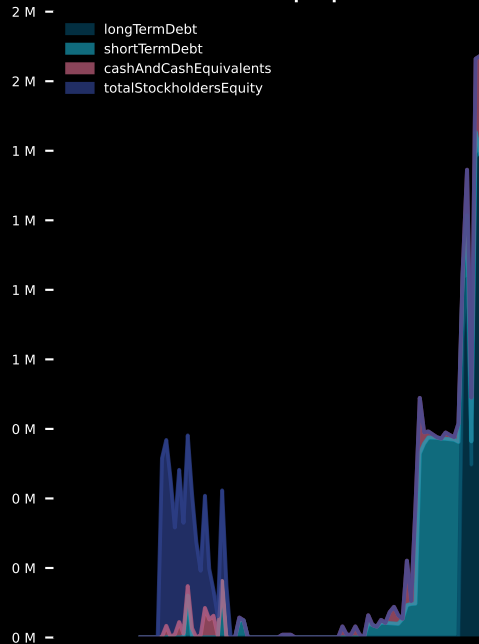
/ Communication Equipment / US / 2022-08-23



Vemanti Group, Inc., through its subsidiaries, provides Voice over Internet Protocol services to small and medium-sized business customers in the United States. It offers unified communications, data center services, content delivery, and cloud computing solutions. The company provides a cloud-based multi-location, multi-user, enterprise-grade communications solution that enables employees to communicate through voice, text, web conferencing, and fax on devices, including smartphones, tablets, PCs, and desk phones. It also offers VoIP products, such as cloud phone systems, and domestic/international origination and termination solution to multi-location enterprise customers. Vemanti Group, Inc. was incorporated in 2014 and is headquartered in Irvine, California.

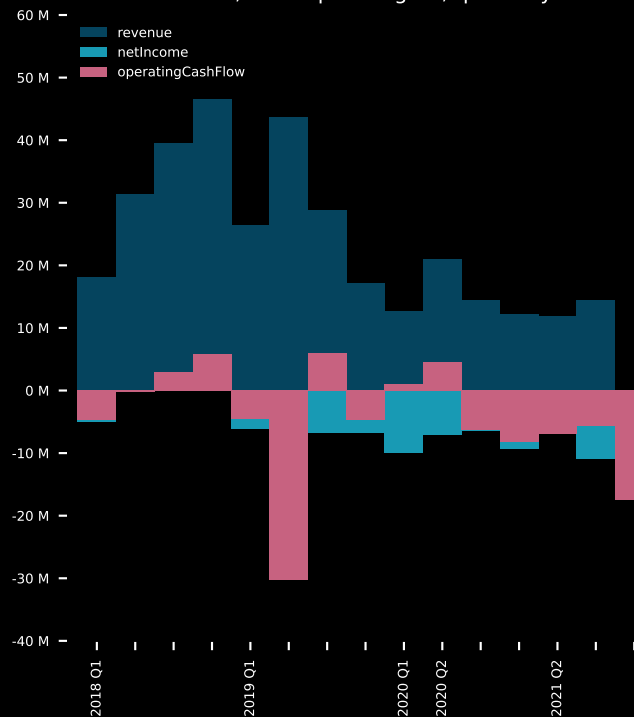


/ Communication Equipment / AU / 2022-08-23

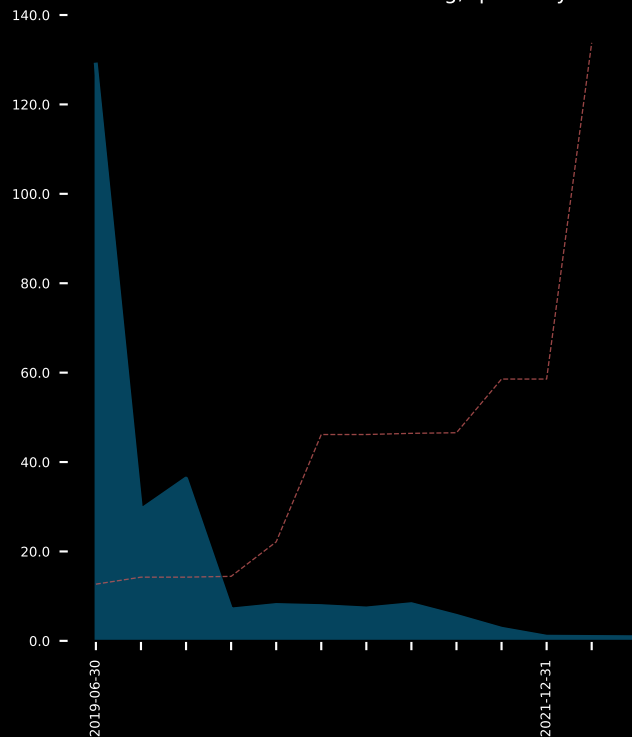


AS-IP Tech, Inc. develops technologies for the business aviation and commercial airline industry. The company offers BizjetMobile and fflya technologies that delivers inflight connectivity. The company markets its BizjetMobile product under the CrewX, CHiiMP, and BizjetInternet brands. It operates in the Asia Pacific, the Americas, Europe, and the Middle East. The company was formerly known as ASI Entertainment, Inc. and changed its name to AS-IP Tech, Inc. in July 2014. AS-IP Tech, Inc. was founded in 1986 and is based in Research, Australia.

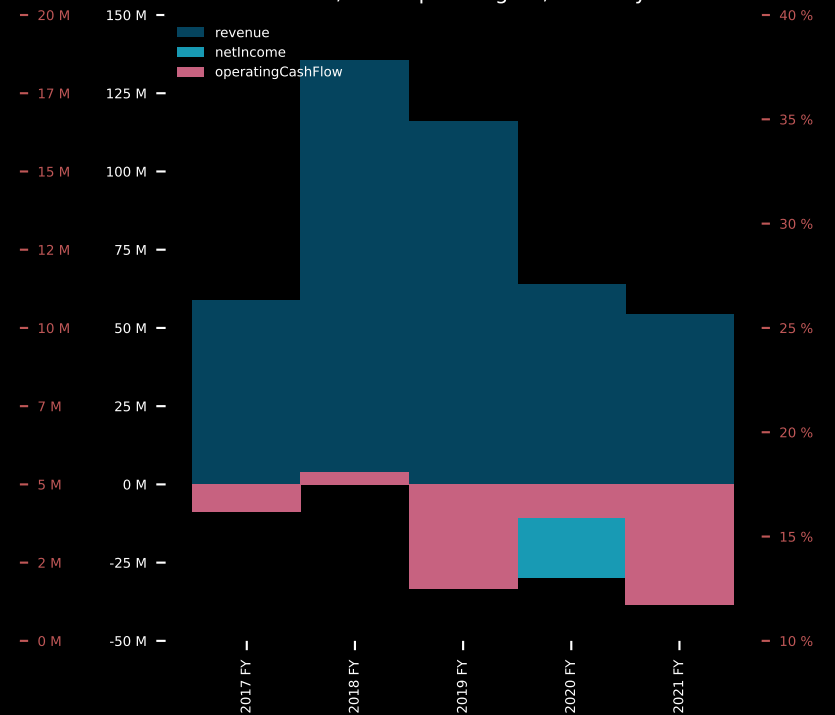
Sales, NI & Operating CF, quarterly



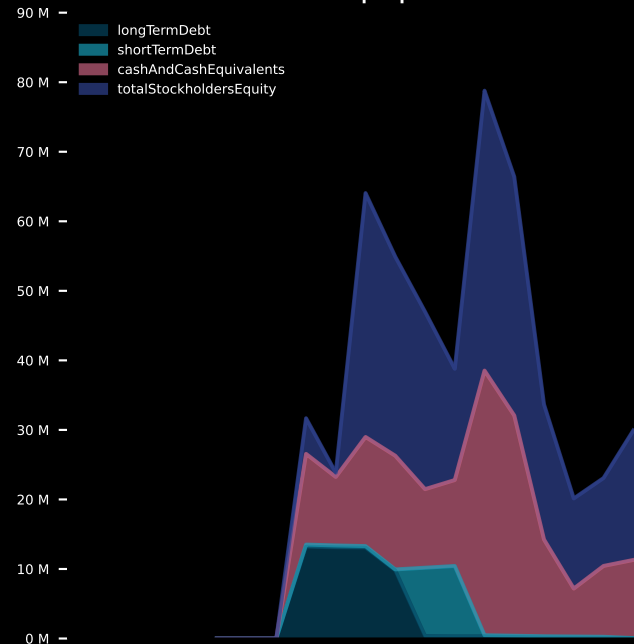
Price vs shares outstanding, quarterly



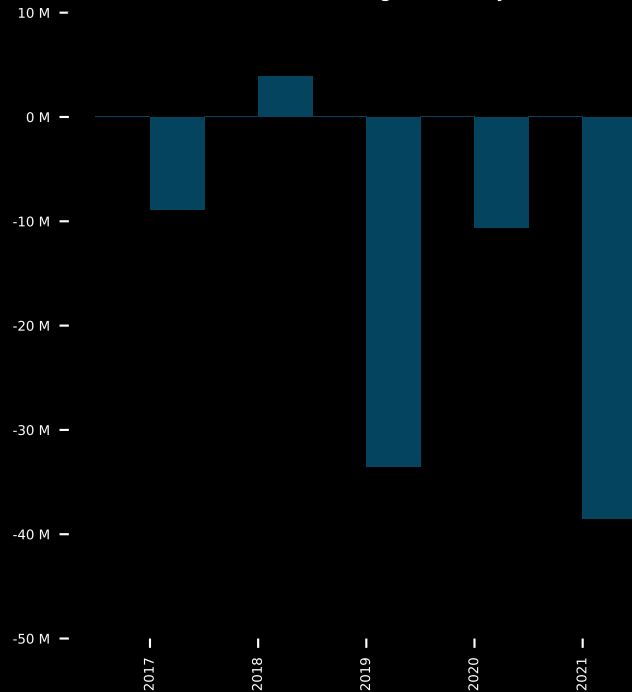
Sales, NI & Operating CF, annually



NM / Communication Equipment / US / 2022-08-23

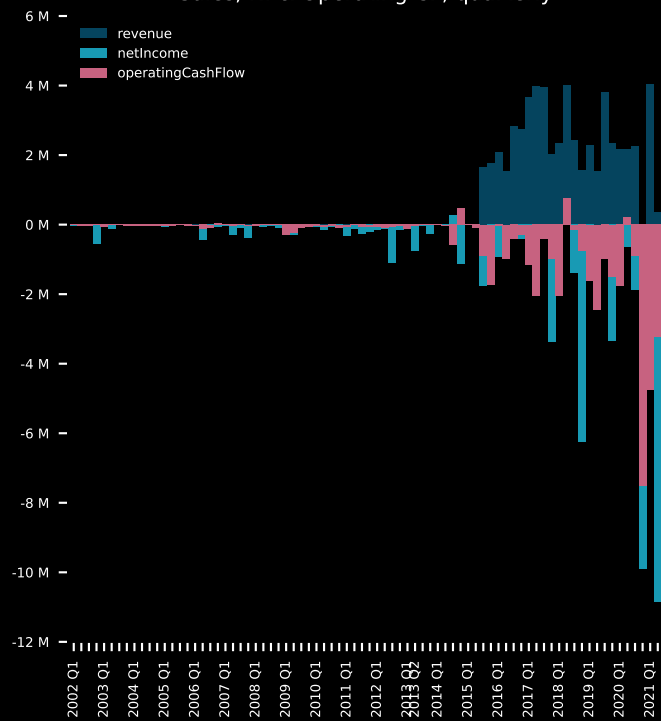


Owners Earnings, annually

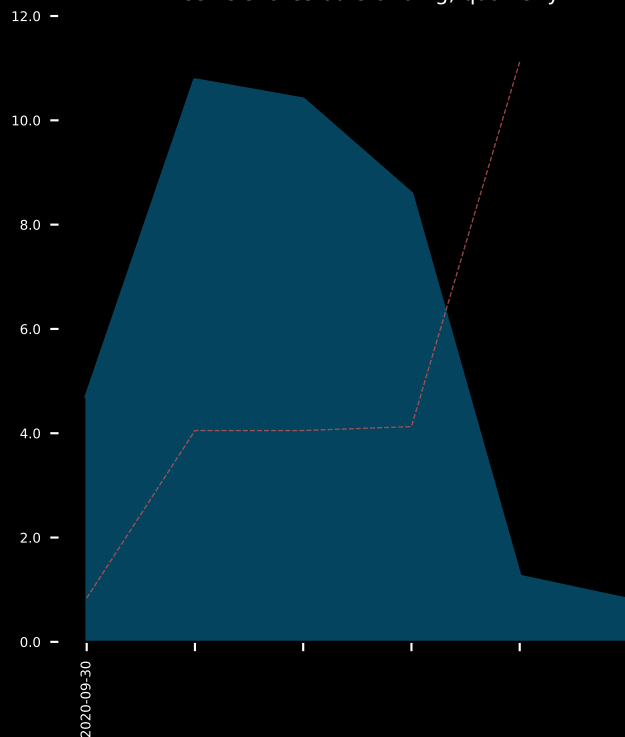


Sonim Technologies, Inc. provides ruggedized mobile phones and accessories for task workers. The company offers ruggedized mobile phones, such as Sonim XP8, Sonim XP5s, Sonim XP3, and Sonim XP3plus based on the Android platform that are capable of attaching to public and private wireless networks; industrial-grade accessories, including remote speaker microphones, multi-bay charging accessories, and in-vehicle hands-free voice communications solutions; and cloud-based software and application services. It sells its mobile phones and accessories primarily to wireless carriers in the United States and Canada; and sells ruggedized phones, barcode scanners, and accessories through distribution channels in North America, South America, and Europe. The company serves transportation and logistics, construction, manufacturing, facilities management, energy and utility, and public sectors. The company was formerly known as NaviSpin.com, Inc. and changed its name to Sonim Technologies, Inc. in December 2001. Sonim Technologies, Inc. was incorporated in 1999 and is based in Austin, Texas.

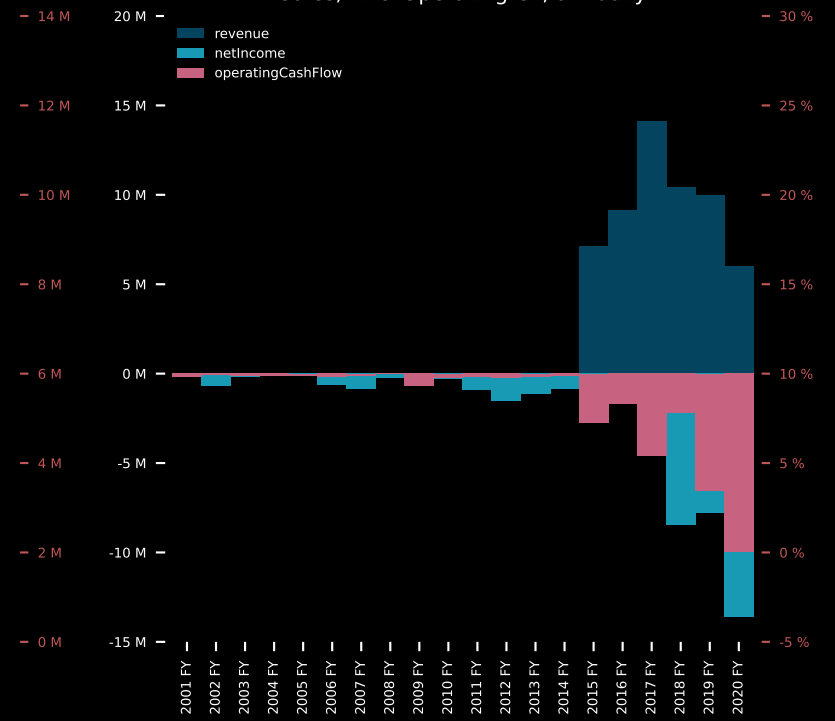
Sales, NI & Operating CF, quarterly



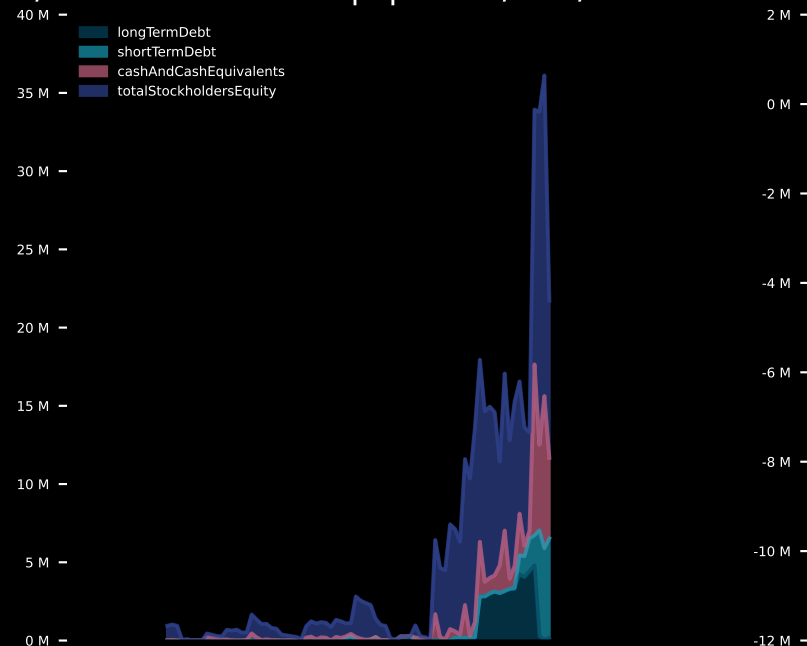
Price vs shares outstanding, quarterly



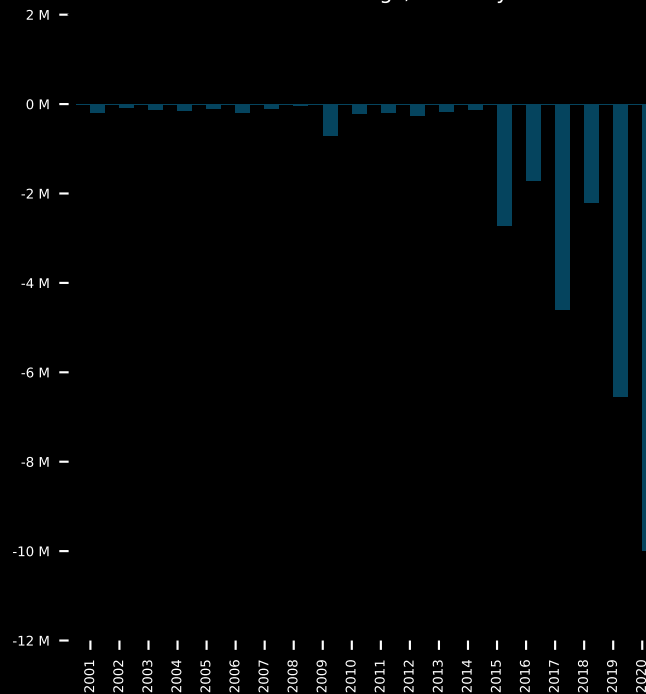
Sales, NI & Operating CF, annually



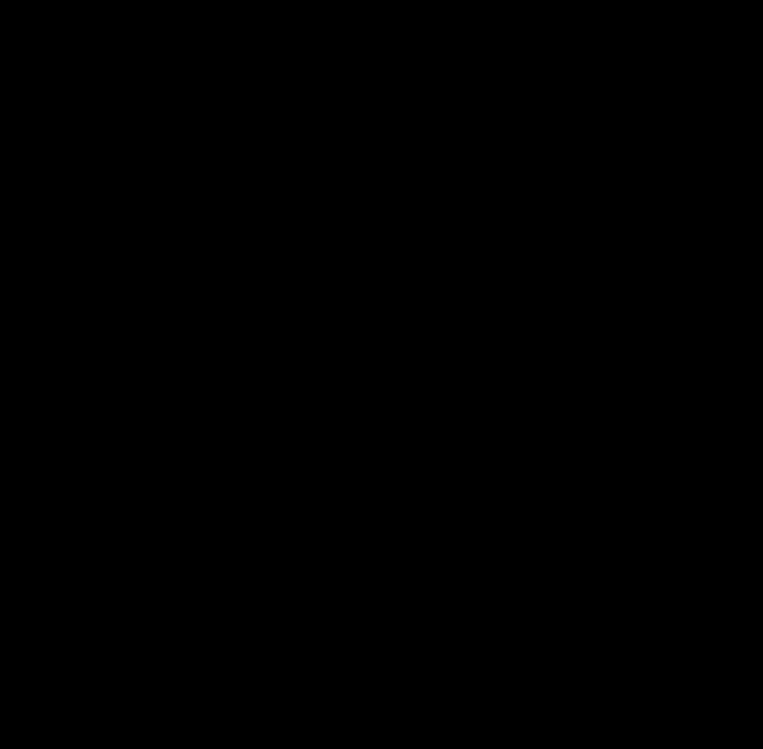
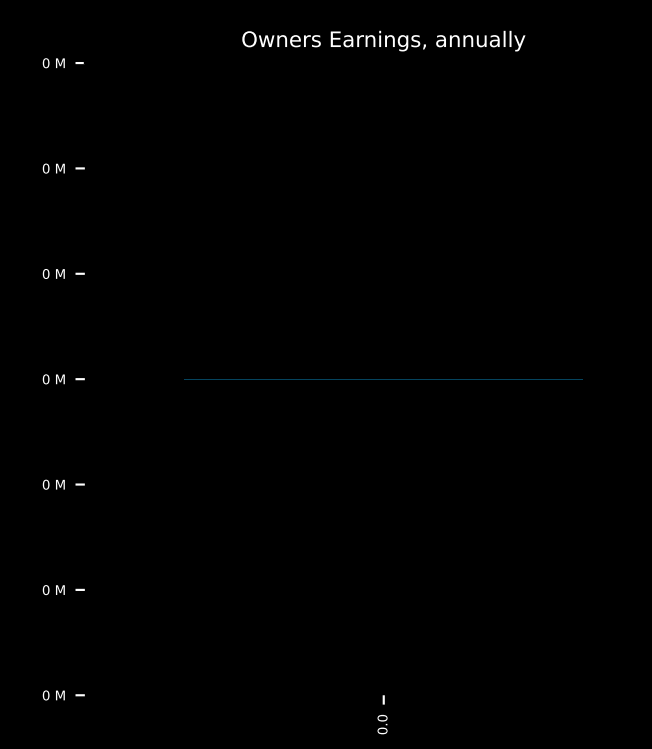
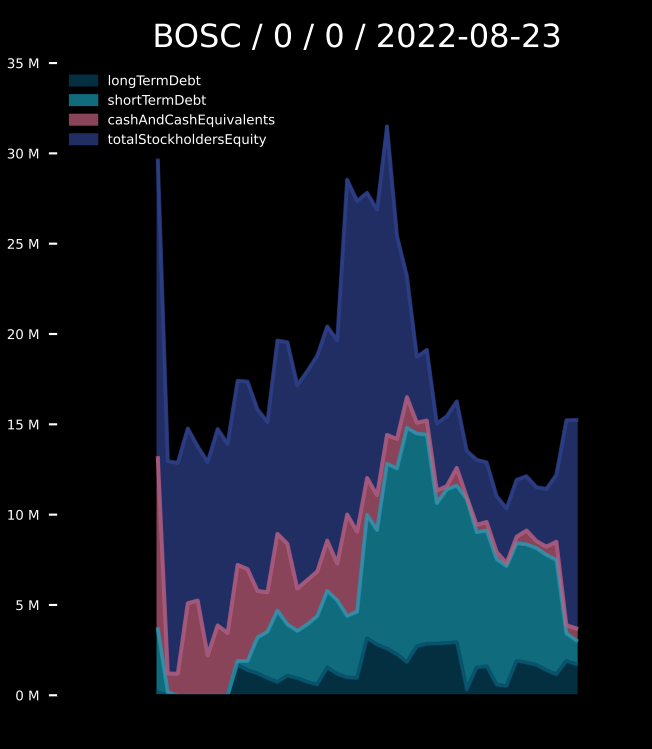
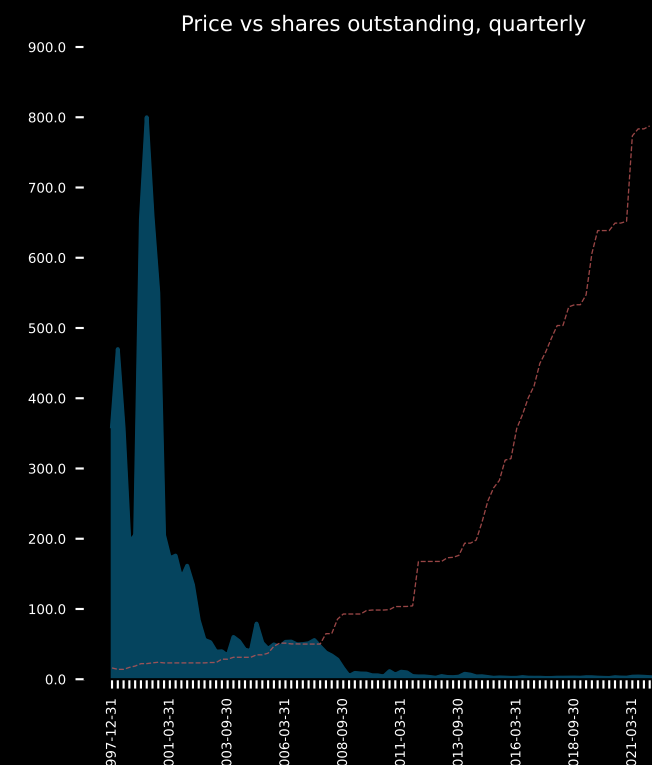
TA / Communication Equipment / CA / 2022-08-23



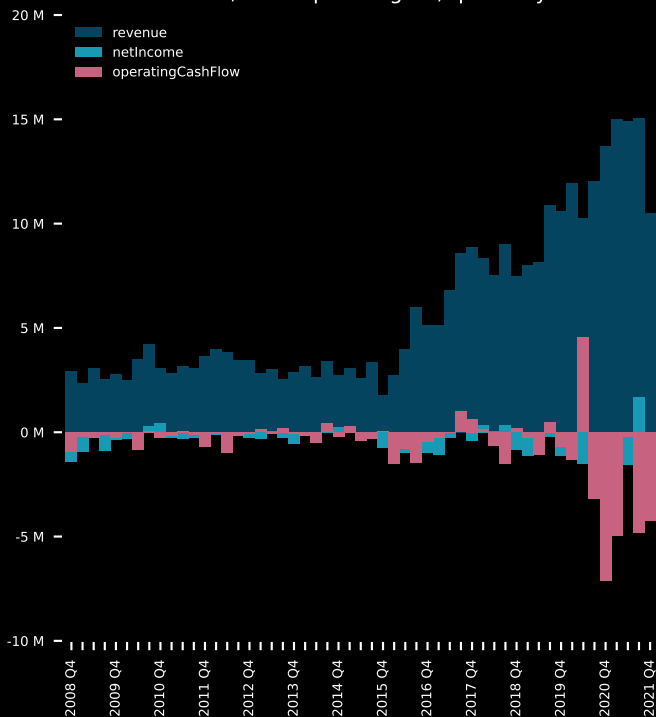
Owners Earnings, annually



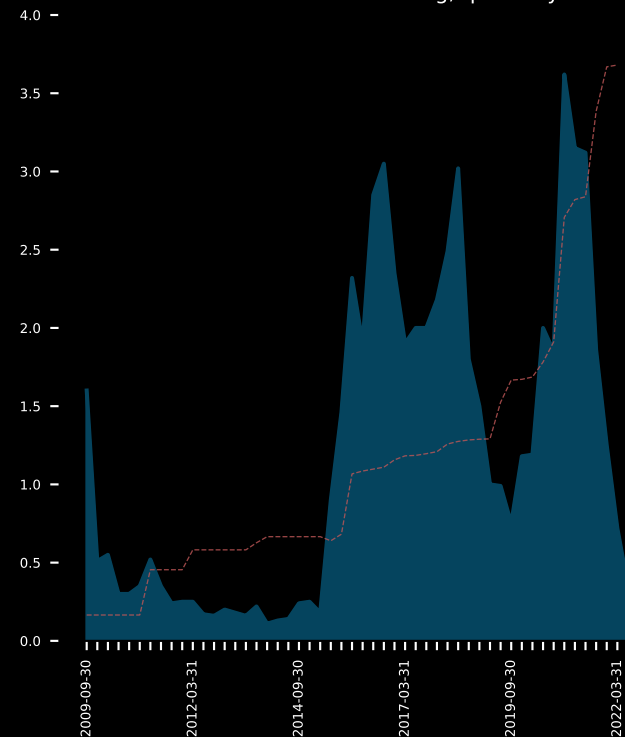
Siyata Mobile Inc. develops and provides cellular communications solutions for enterprise customers. It provides connected-vehicle devices and various accessories that are designed for professional fleets, such as trucks, vans, buses, ambulances, government cars, and others. The company also develops, markets, and sells rugged Push-To-Talk (PTT), mobile devices, cellular amplifiers, and various accessories. In addition, it offers 4G LTE devices, such as Uniden UV350 and Uniden CP250, in-vehicle communication devices that incorporate voice, push-to-talk over cellular, navigation, and data fleet management solutions. Further, the company provides cellular booster solutions, such as Uniden U60C 4G and U65C 4G to enhance connectivity; Uniden U70 FN for inside buildings, Uniden UM50 FN for inside vehicles, and the Uniden UM2M FN that can connect to its Uniden UV350 in vehicle communicator; Uniden Mobile Coverage Kit; Mission Critical Push-To-Talk device; and Vehicle Kit 7, a vehicle kit accessory that provides an in-vehicle solution. It serves cellular network operators and their dealers, as well as commercial vehicle technology distributors for fleet solutions. The company is located in the Middle East.



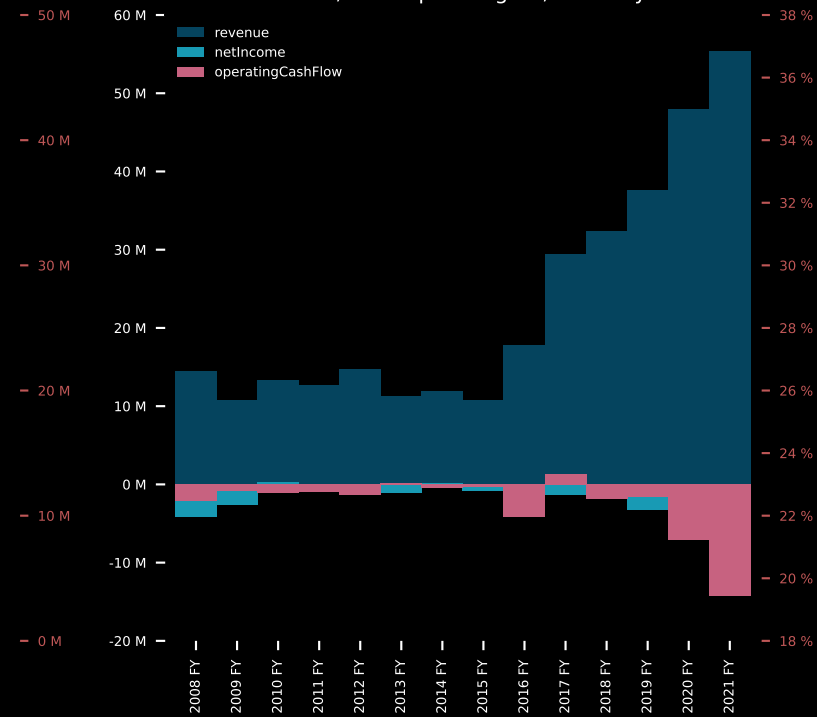
Sales, NI & Operating CF, quarterly



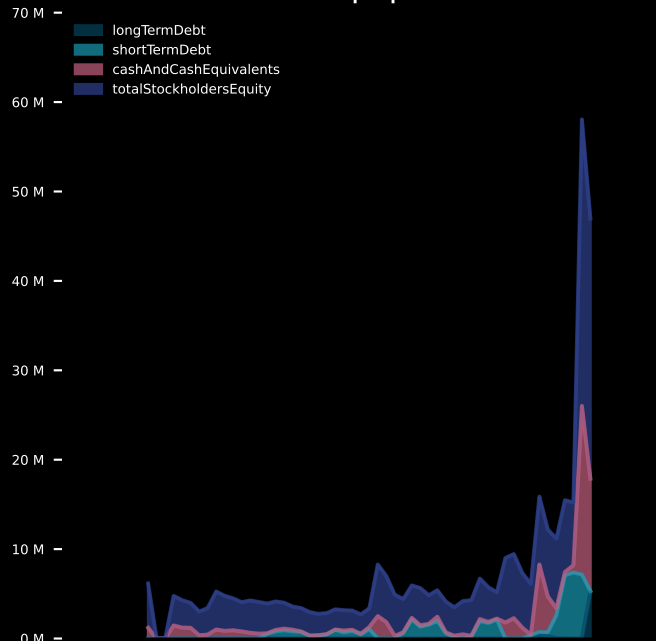
Price vs shares outstanding, quarterly



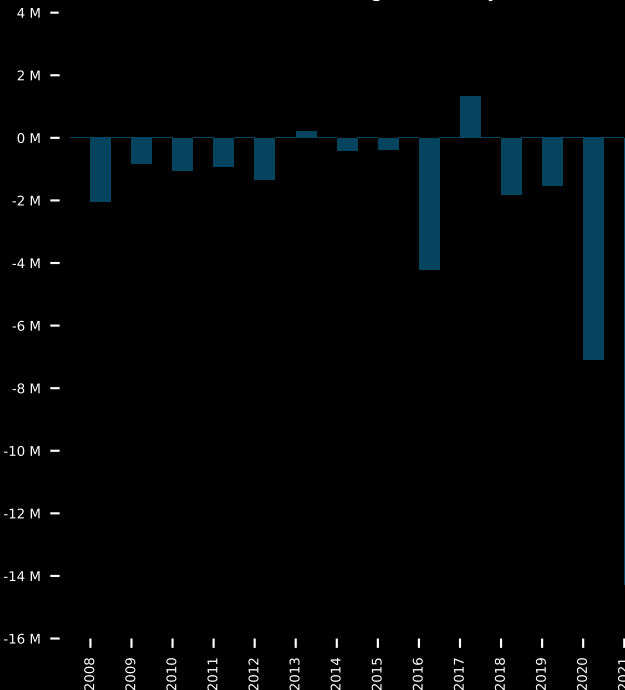
Sales, NI & Operating CF, annually



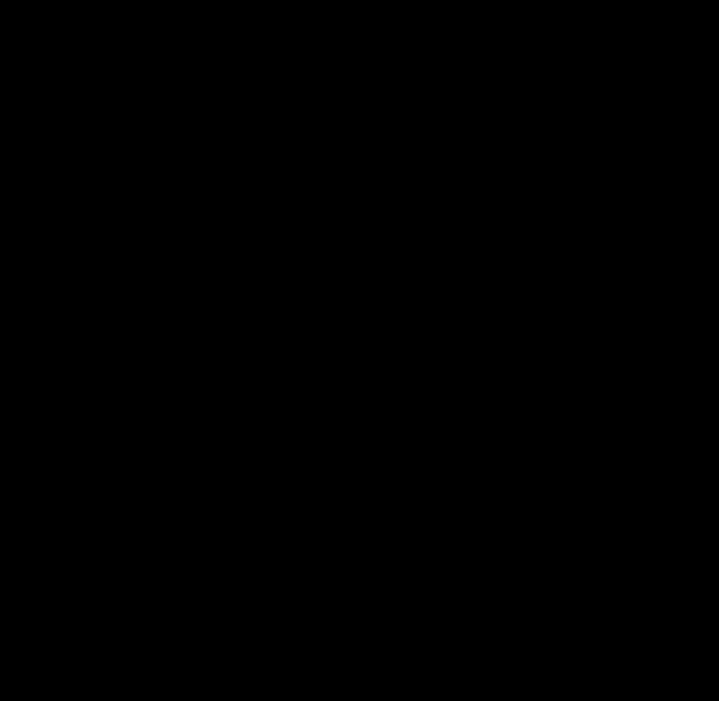
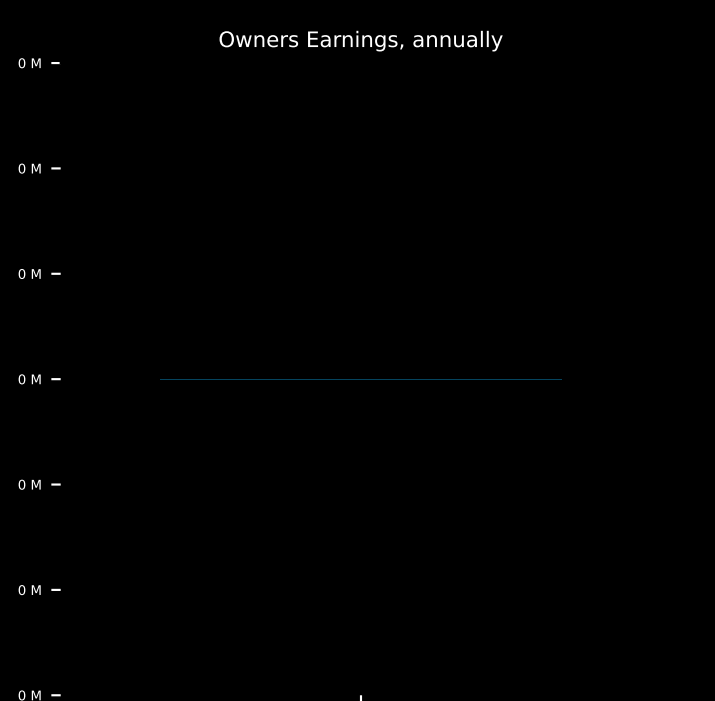
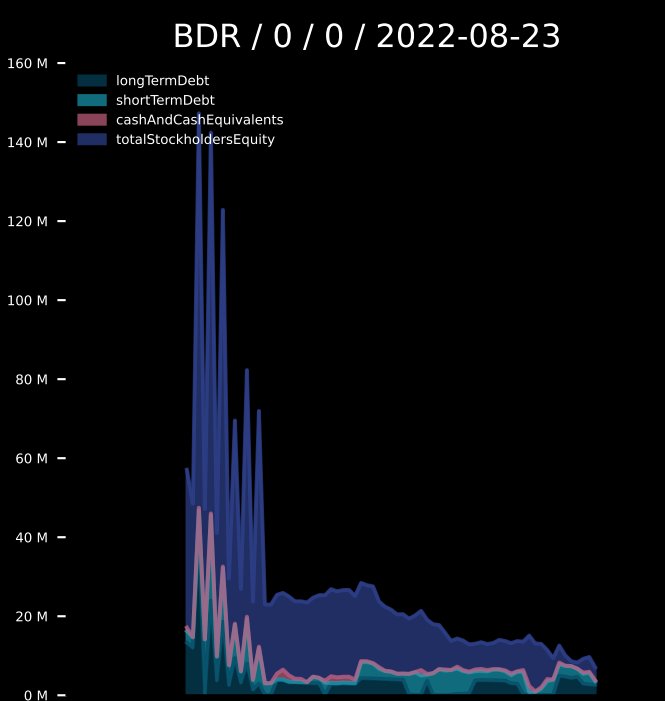
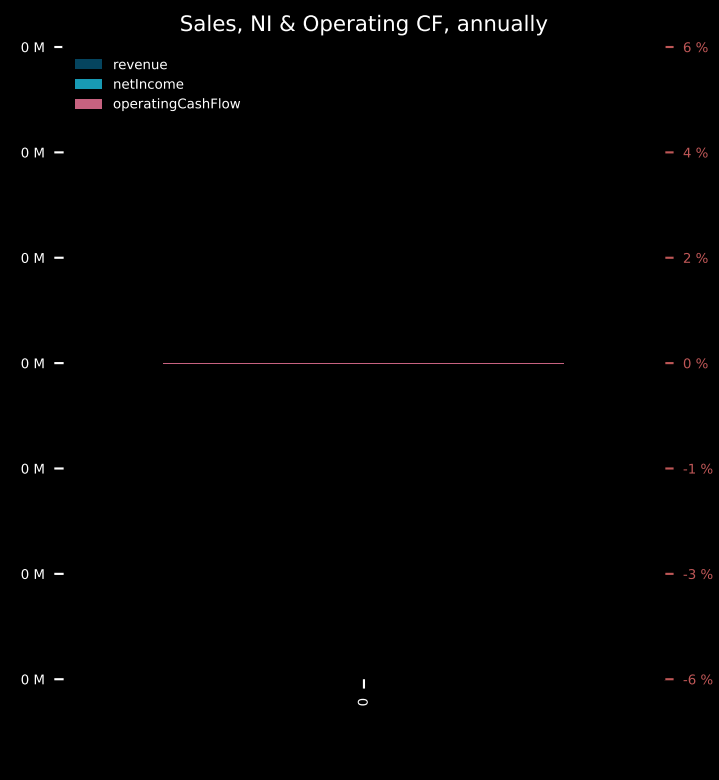
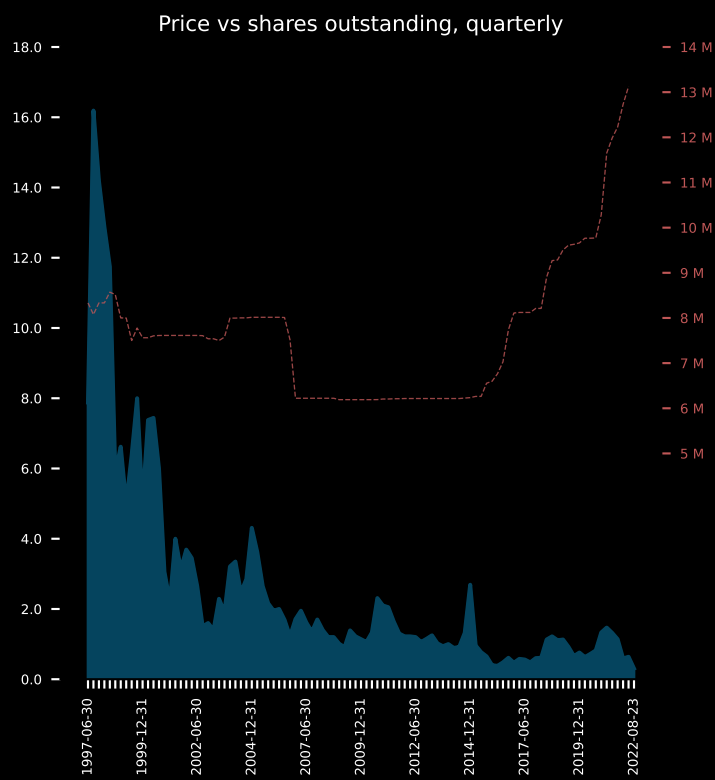
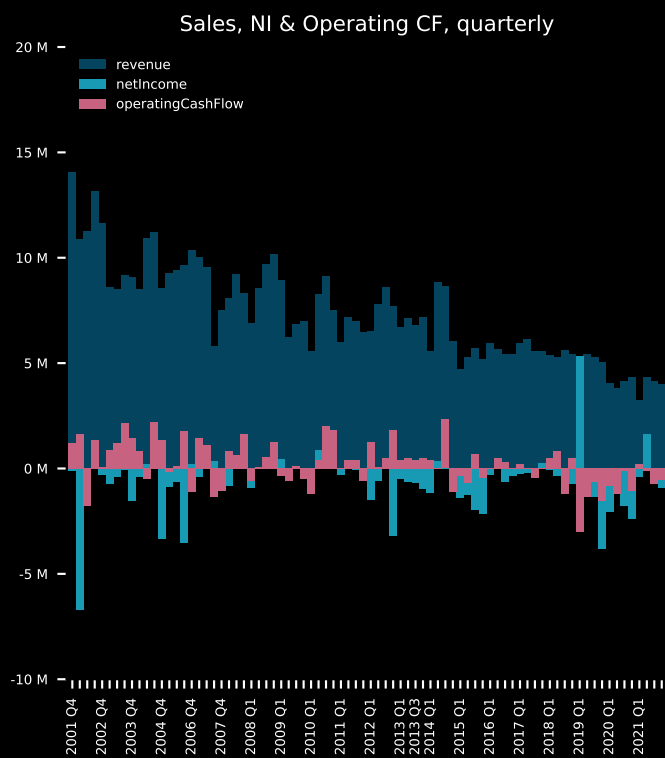
NM / Communication Equipment / US / 2022-08-23



Owners Earnings, annually



Minim, Inc., together with its subsidiaries, designs, develops, sells, and supports an Internet of Things security platform in North America and internationally. It offers hardware products, including cable modems, cable modem/routers, gateways, mobile broadband modems, wireless routers, multimedia over coax adapters, mesh home networking devices, and other local area network products. The company also provides Minim mobile applications for end users to personalize and monitor their home and office network for speed testing, data usage tracking, security alerts, malware blocking, privacy settings, and parental controls; and Minim web application that enables technical support representatives of Internet Service Providers (ISPs) and businesses to offer remote support with network insights. In addition, it offers Minim API suite and MinimOS for third-party hardware vendors, ISPs, and other partners to integrate with the Minim platform and functionality; to manage their own account data; and to integrate with third-party router firmware. The company offers its products under the ZOOM, Motorola, and Minim brands. It sells its products through direct sales, through its website, and through third-party distributors.



Sales, NI & Operating CF, quarterly

Legend:

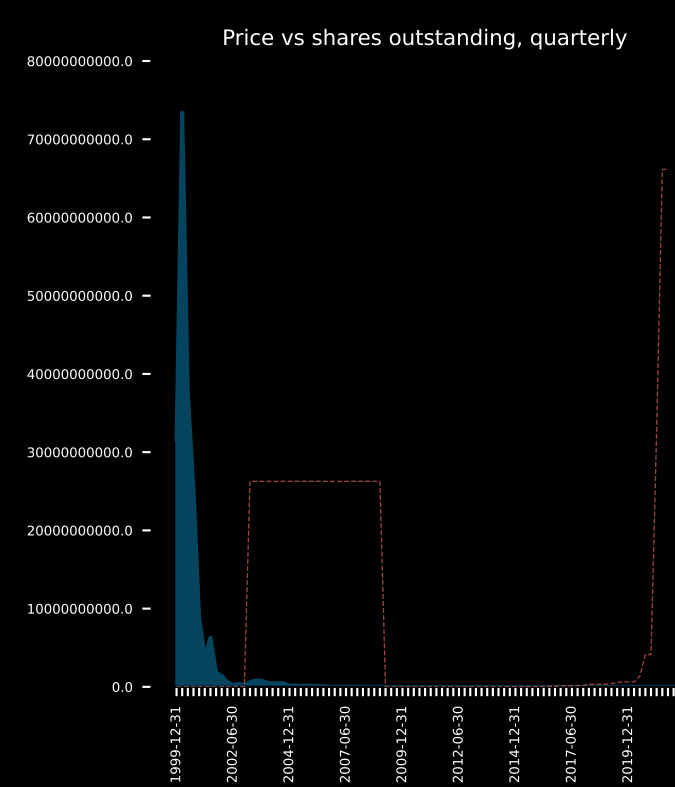
- revenue
- netIncome
- operatingCashFlow

The chart displays quarterly financial data from 2001 Q3 to 2020 Q4. The y-axis represents millions of dollars, ranging from -10M to 6M. The x-axis shows quarters from 2001 Q3 to 2020 Q4. Revenue (dark blue) shows a steady upward trend, starting near zero and reaching approximately 1.5M by 2020 Q4. Net income (light blue) shows significant volatility, with a major loss of nearly -9M in 2011 Q3. Operating cash flow (pink) remains relatively stable, fluctuating between -1M and 1M throughout the period.



Price vs shares outstanding, quarterly

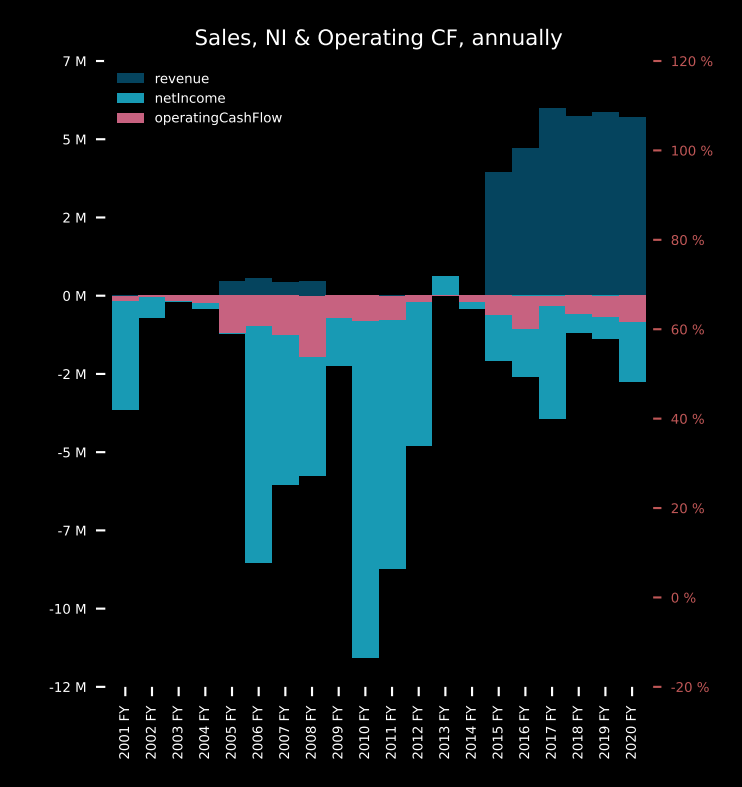
The chart displays the relationship between the price of shares and the number of shares outstanding on a quarterly basis. The y-axis represents the price, ranging from 0.0 to 800,000,000,000.0. The x-axis shows time, with labels for 1999-12-31, 2002-06-30, 2004-12-31, 2007-06-30, 2009-12-31, 2012-06-30, 2014-12-31, 2017-06-30, and 2019-12-31. The price remains near zero until early 2020, where it spikes dramatically to over 700,000,000,000.0, then drops sharply to near zero by late 2020.



Sales, NI & Operating CF, annually

The chart displays three financial metrics for the company from 2001 to 2020. Sales (red line) shows a steady increase from approximately 100 million in 2001 to over 1 billion in 2020. Net Income (blue bars) and Operating Cash Flow (green bars) are shown in millions on the left Y-axis. Net Income starts at a loss of about 3.5 million in 2001, turns positive in 2002, and reaches a peak of nearly 6 million in 2017 before declining. Operating Cash Flow remains positive throughout the period, starting at about 0.5 million and peaking at over 4 million in 2017.

Fiscal Year	Sales (M)	Net Income (M)	Operating Cash Flow (M)
2001 FY	100	-3.5	0.5
2002 FY	110	1.0	0.5
2003 FY	120	1.0	0.5
2004 FY	130	0.5	0.5
2005 FY	140	-1.5	0.5
2006 FY	150	-8.5	0.5
2007 FY	160	-6.5	0.5
2008 FY	170	-6.0	0.5
2009 FY	180	-1.5	0.5
2010 FY	190	-11.5	0.5
2011 FY	200	-8.5	0.5
2012 FY	210	-4.5	0.5
2013 FY	220	0.5	0.5
2014 FY	230	-1.5	0.5
2015 FY	240	-1.5	0.5
2016 FY	250	-2.0	0.5
2017 FY	260	5.5	4.5
2018 FY	270	5.0	4.0
2019 FY	280	4.5	3.5
2020 FY	290	4.0	3.0



T / Communication Equipment / US / 2022-08-23

40 M —

35 M —

30 M —

25 M —

20 M —

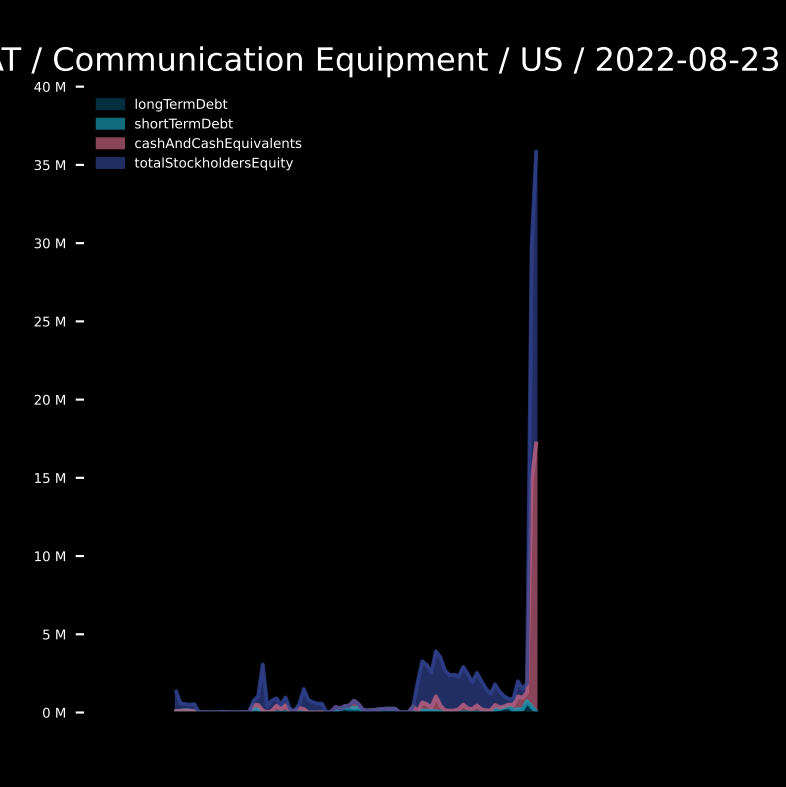
15 M —

10 M —

5 M —

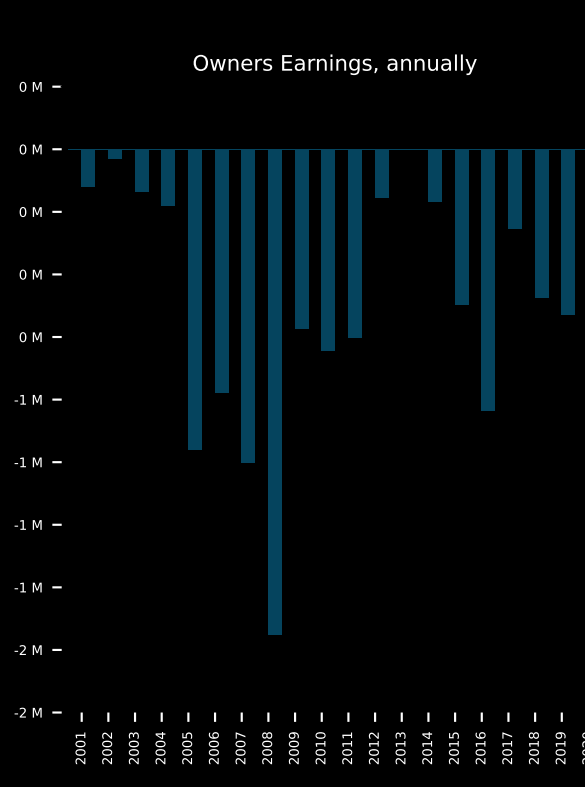
0 M —

- longTermDebt
- shortTermDebt
- cashAndCashEquivalents
- totalStockholdersEquity

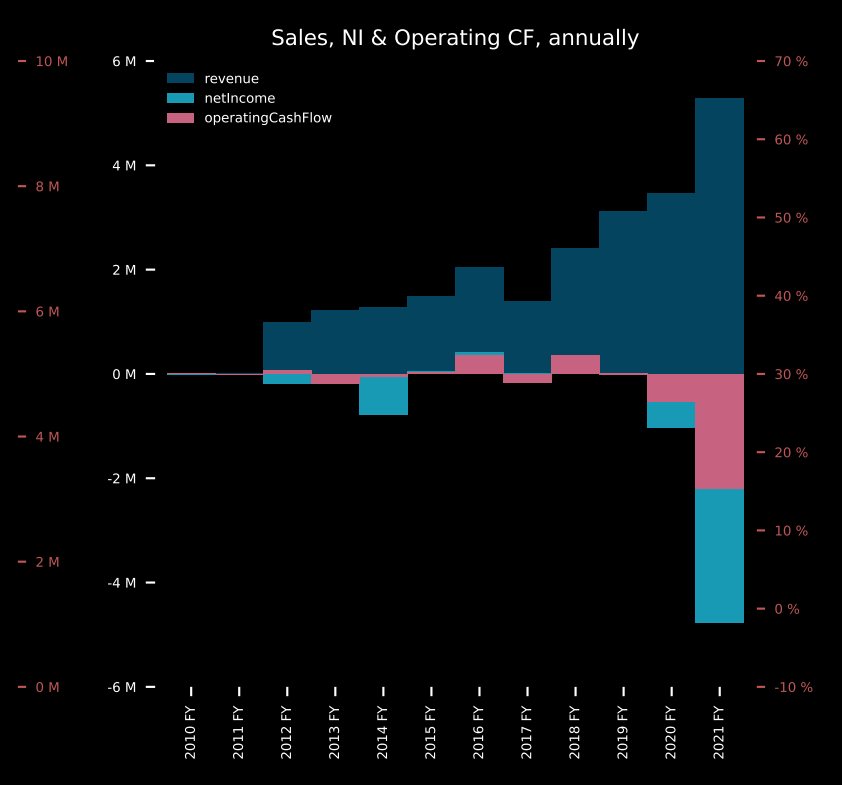
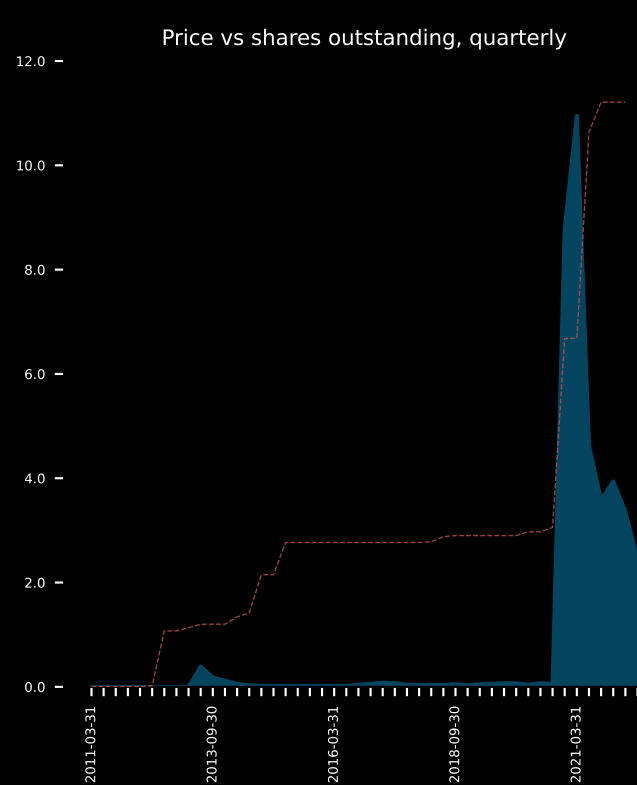
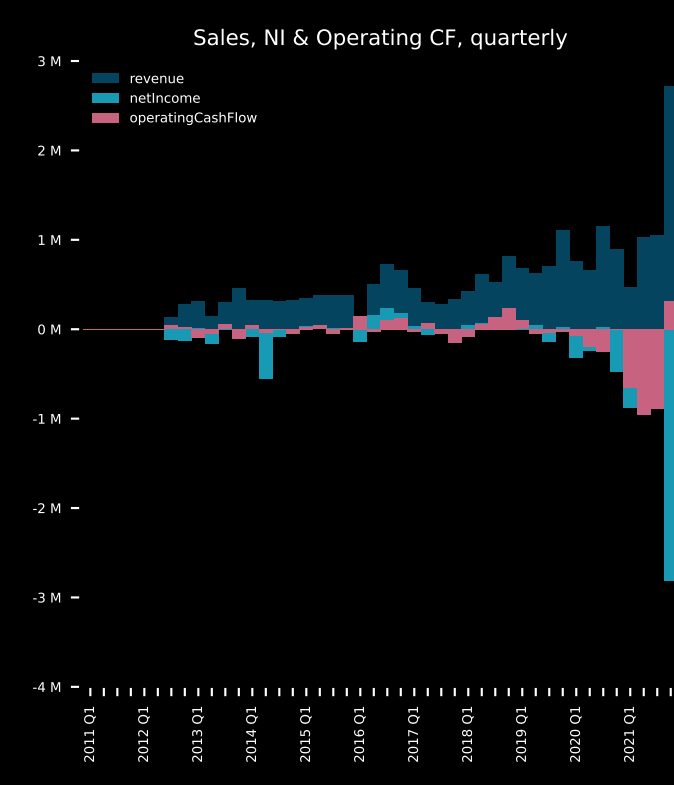


Owners Earnings, annually

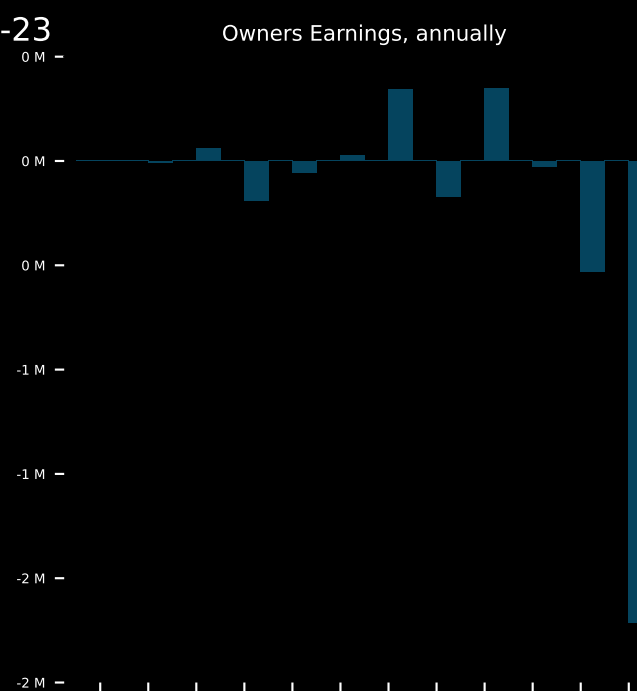
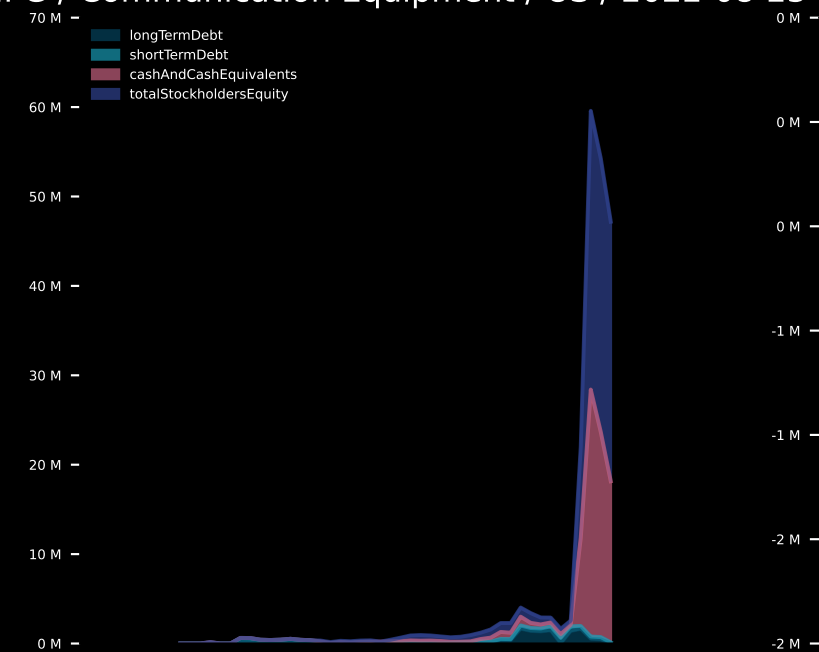
Year	Earnings (M)
2001	-0.2
2002	-0.1
2003	-0.1
2004	-0.2
2005	-0.3
2006	-0.8
2007	-0.9
2008	-1.8
2009	-0.2
2010	-0.3
2011	-0.4
2012	-0.2
2013	0.0
2014	0.0
2015	-0.4
2016	-1.1
2017	-0.2
2018	-0.4
2019	-0.5



Orsat Corp., together with its subsidiaries, provides mobile satellite services (MSS) solutions for satellite-enabled voice, data, personnel and asset tracking, machine-to-machine, and Internet of Things (IoT) connectivity services in the United States and internationally. Its solutions include satellite communications, IoT tracking, and Internet, as well as emergency locator beacons. The company also provides tracking and monitoring solutions using automatic identification system, 2G-5G, push-to-talk, and two-way radio technology; and sells MSS related equipment. In addition, it operates GTCTrack, a subscription-based mapping and tracking portal that provides cloud-based data visualization and management platform that allow managers to track, command, and control assets in near-real-time; and a short-term rental service for customers to use equipment for a limited time period. The company provides its solutions for businesses, governments, military, humanitarian organizations, and individual users to communicate, connect to internet, track and monitor remote assets and lone workers, or

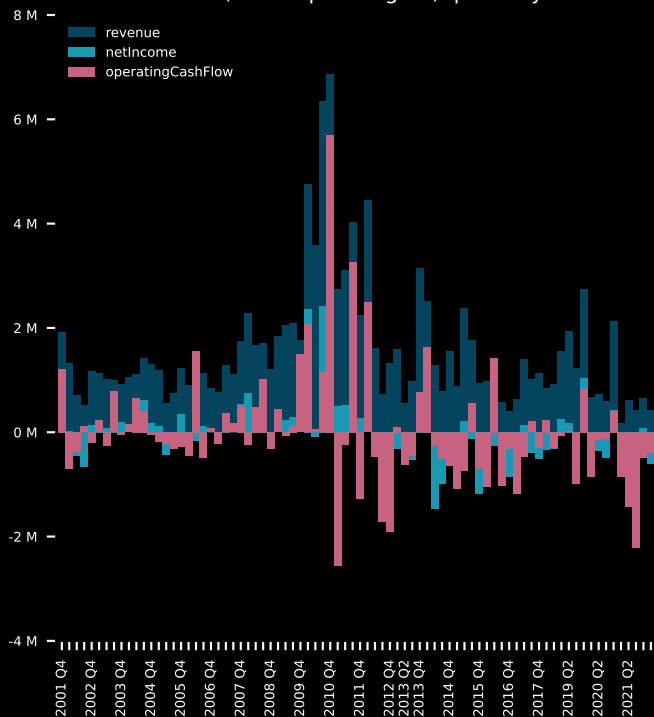


PG / Communication Equipment / US / 2022-08-23

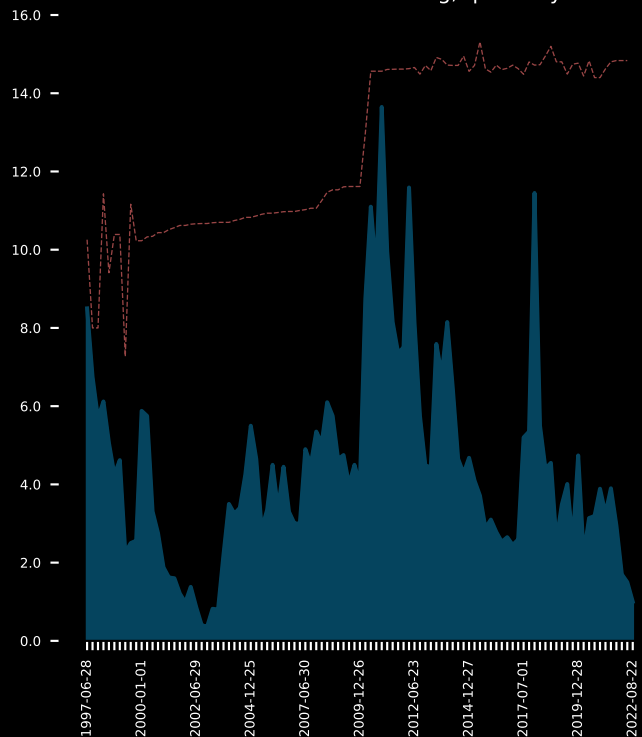


AmpliTech Group, Inc. designs, engineers, and assembles micro-wave component-based amplifiers. The company's products include radio frequency (RF) amplifiers and related subsystems, such as low noise amplifiers for use in receivers of various communication systems comprising Wi-Fi, radar, satellite, base station, cell phone, radio, etc.; and medium power amplifiers that provide enhanced output power and gain in transceiver chains. It also provides specialty microwave block downconverters used as a test device on satellite access point antennas; specialty microwave 1:2 Tx protection switch panels that is used in satellite communication earth stations; desktop/benchtop and compact wideband power amplifiers; and waveguide to coaxial adapters for SATCOM and satellite internet gateway systems. In addition, the company offers cryogenic amplifiers for quantum computing, medical, RF imaging, research and development, space communications, accelerators, radiometry, and telephony applications; and cryogenic and non-cryogenic 4g/5g small cell subsystems for high-speed networks and airline Wi-Fi systems. Further, it provides custom

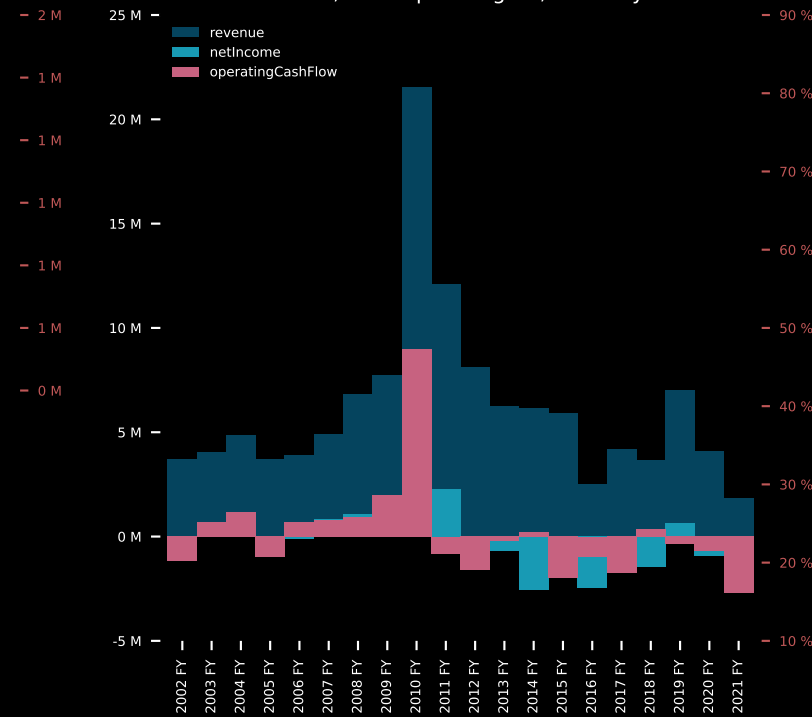
Sales, NI & Operating CF, quarterly



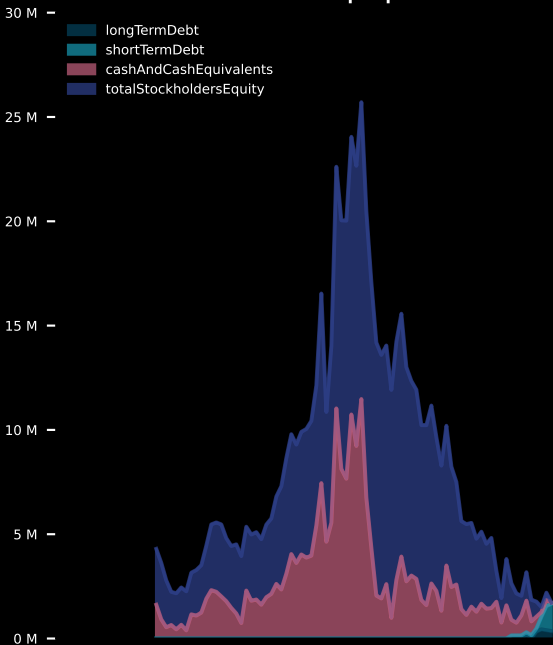
Price vs shares outstanding, quarterly



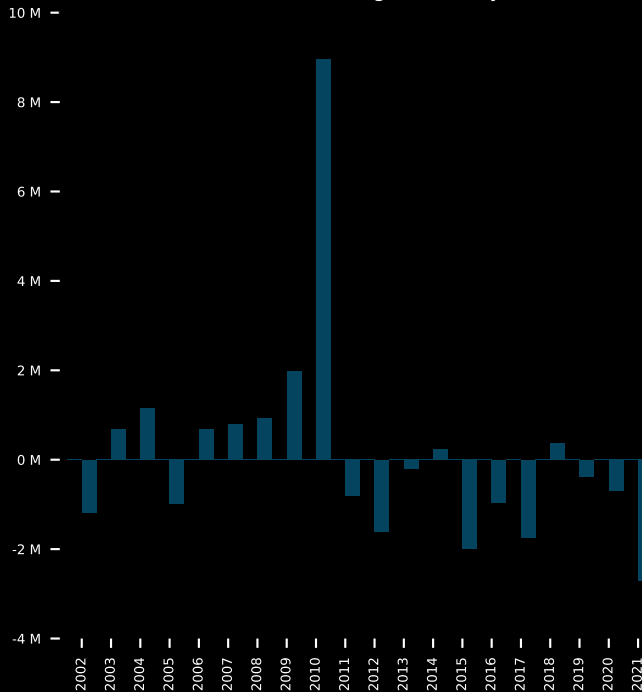
Sales, NI & Operating CF, annually



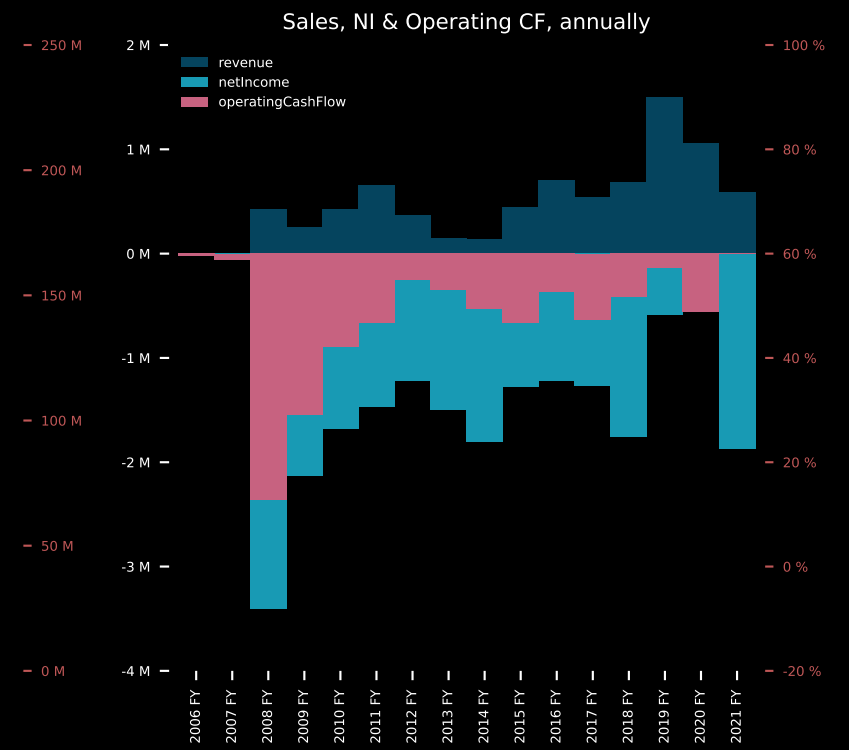
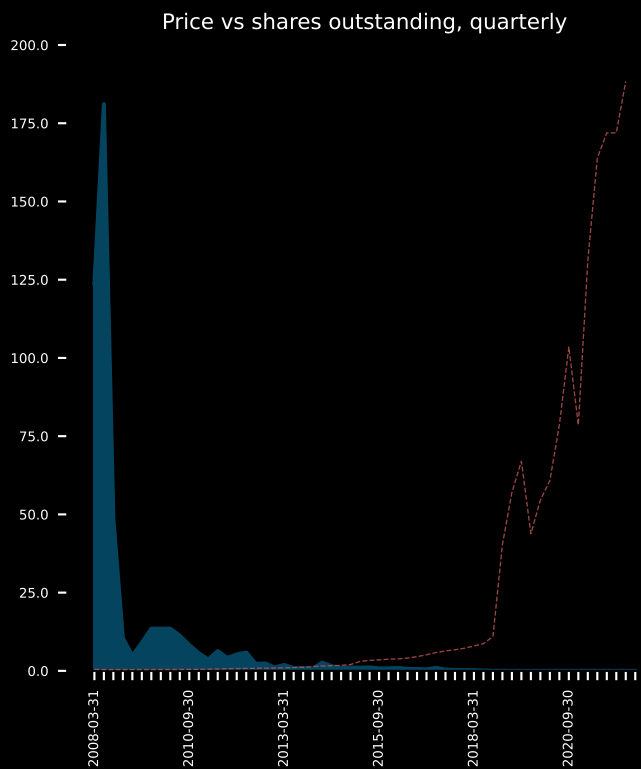
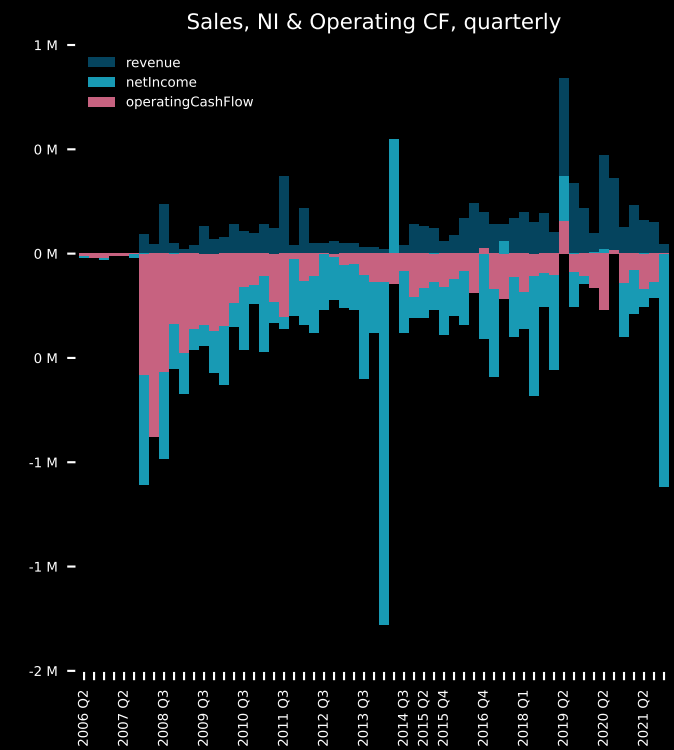
CO / Communication Equipment / US / 2022-08-22



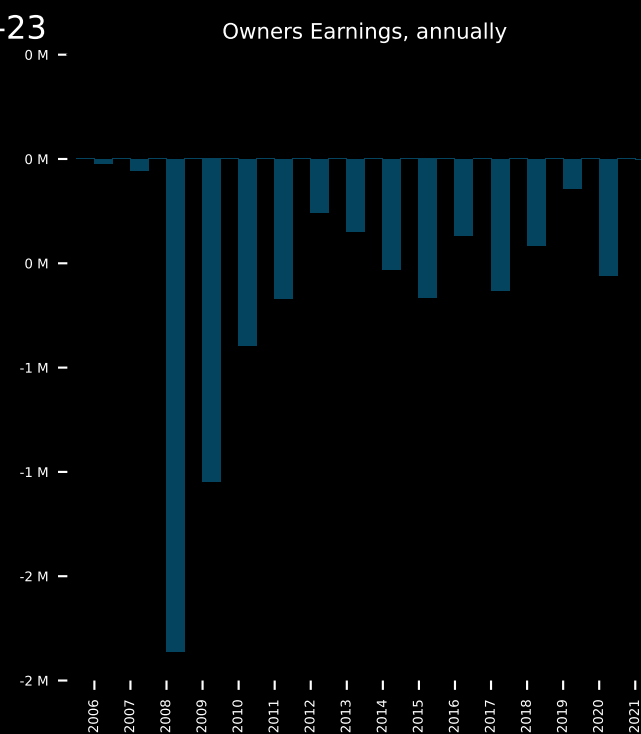
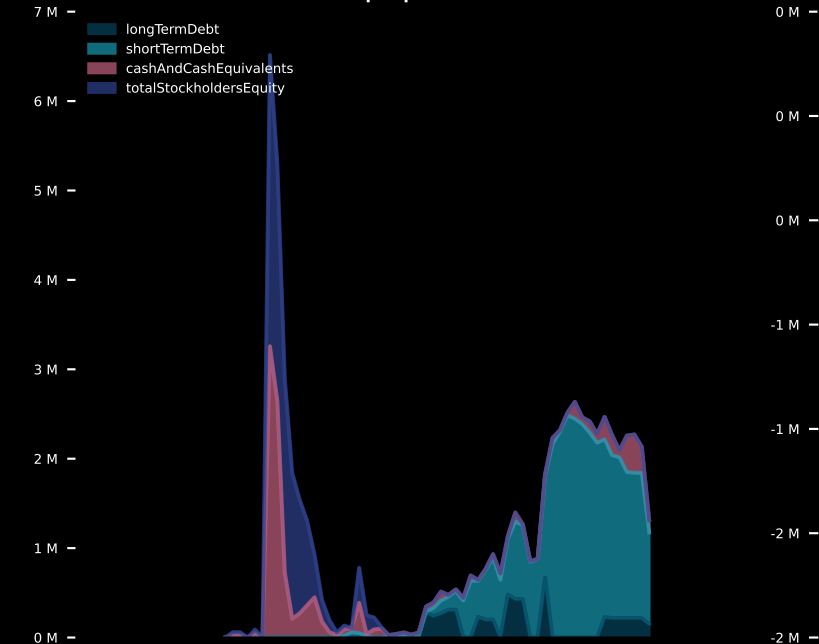
Owners Earnings, annually



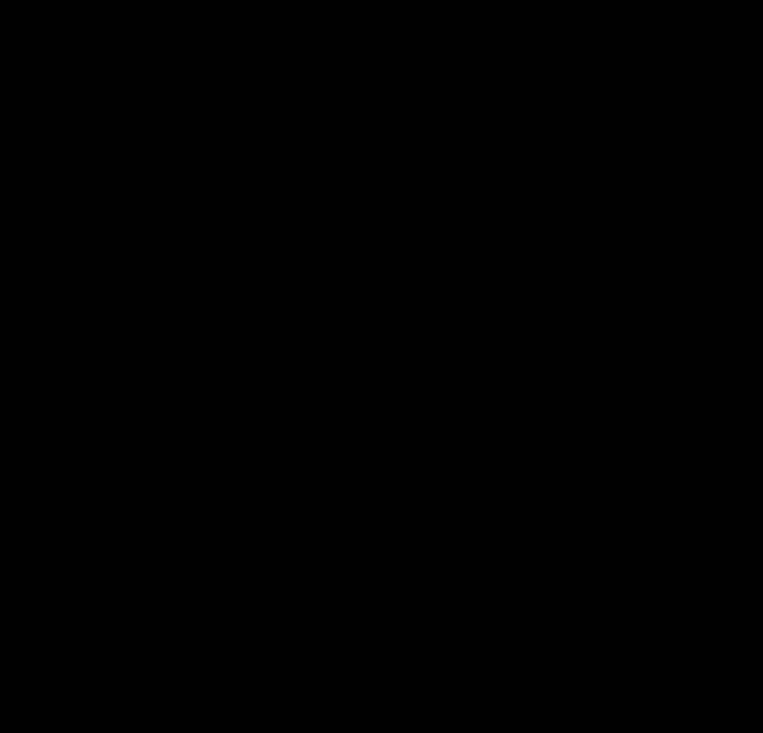
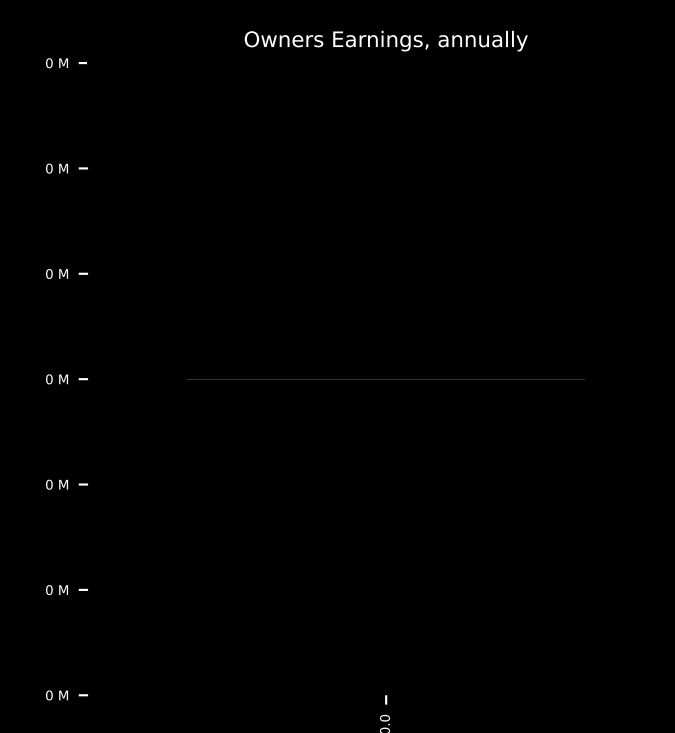
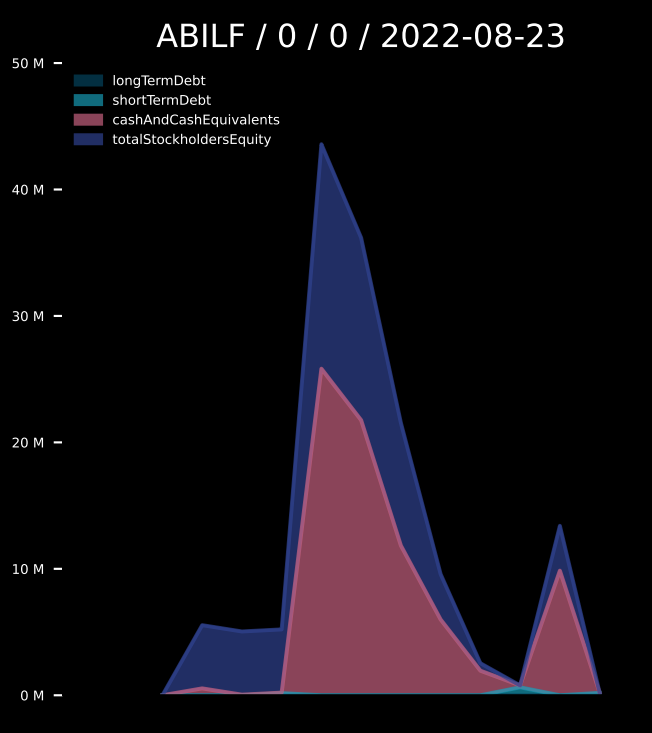
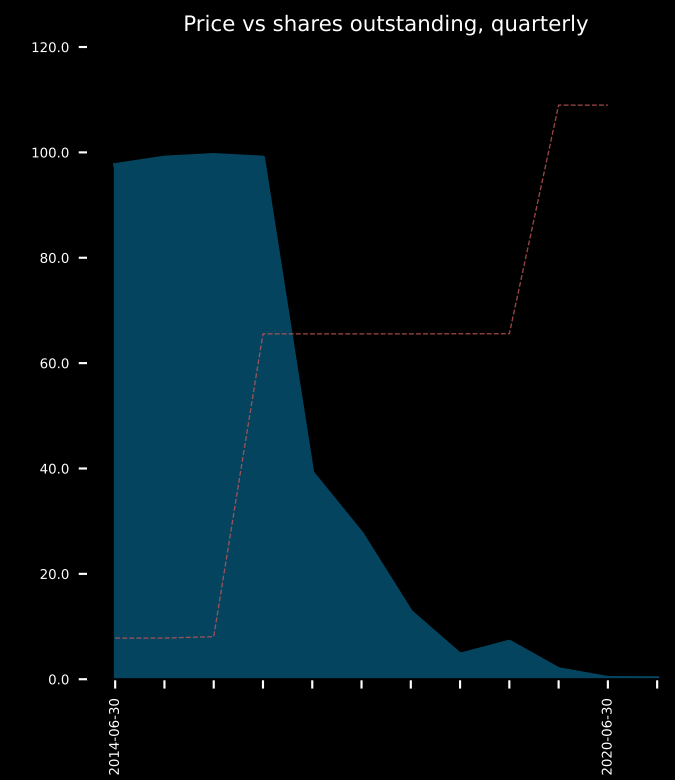
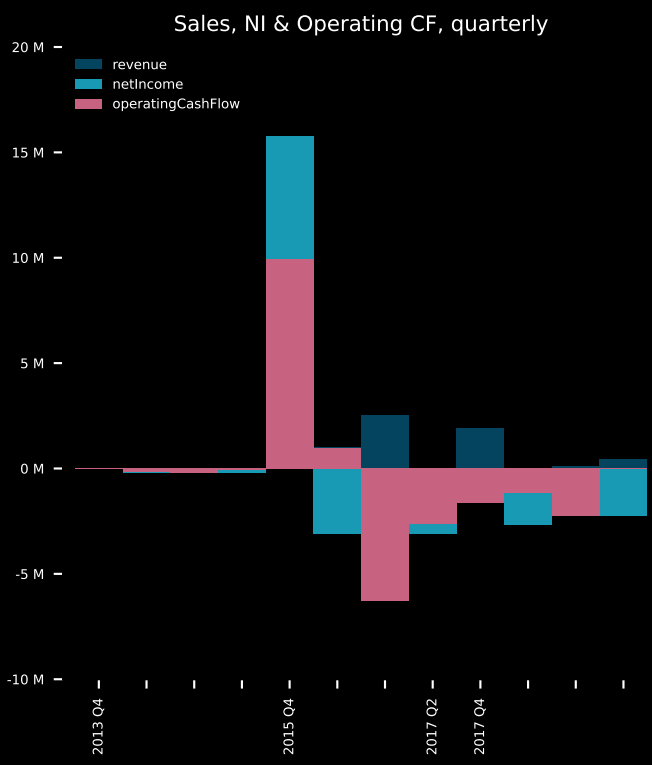
Technical Communications Corporation engages in the design, development, manufacture, distribution, marketing, and sale of communications security devices, systems, and services worldwide. The company primarily provides data, video, fax, and voice networks. Its products include government systems, such as CSD 3324 SE secure telephone, fax, and data system; CSD 3324 SP telephone and fax system; DSD 72A-SP military bulk ciphering system; and DSP 9000 radio encryption system, as well as the HSE 6000 squad radio headset and telephone encryptor for public safety special operations, land mobile radio applications, and for military applications. The company also provides network security systems comprising network encryption systems with centralized key and device management for IP, SONET/SDH, and frame relay networks to secure data in transit from local area network to local area network and across wide area networks. In addition, it offers secure office systems, such as CSD 4100 executive secure telephone and CipherTalk 8500 Internet protocol (IP)-based secure wireless phone. The company's products are sold to government, defense, and commercial customers.



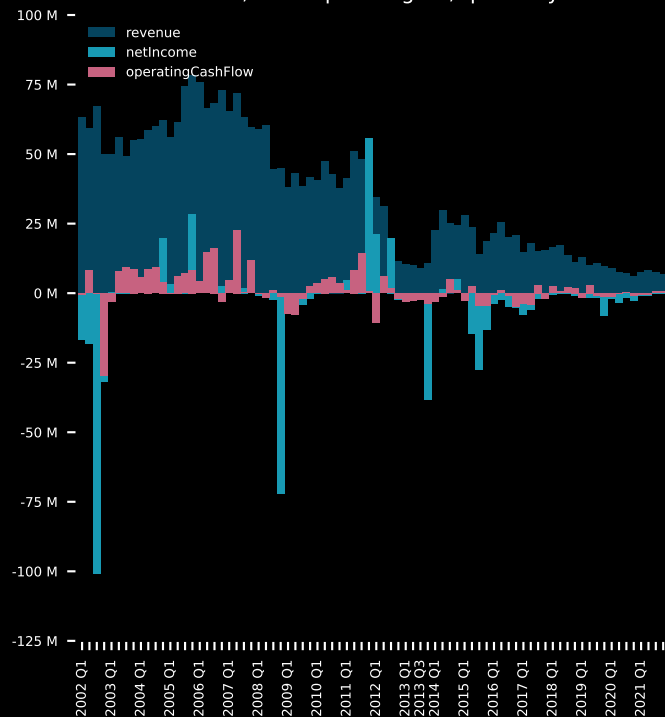
XO / Communication Equipment / US / 2022-08-23



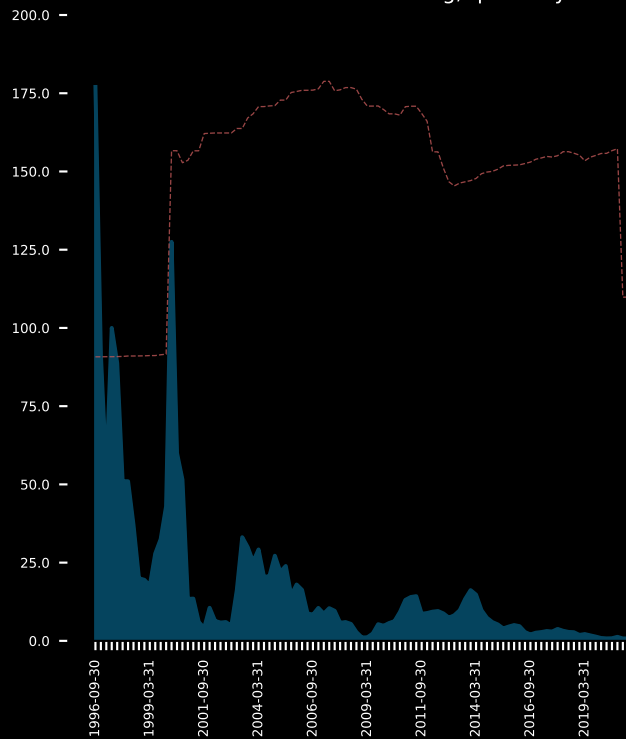
GTX Corp. designs, develops, manufactures, and sells various products and services in the personal location services marketplace in the United States and internationally. The company offers global positioning system (GPS), Bluetooth low energy (BLE), and cellular location platform that enables subscribers to track in real time the whereabouts of people, pets, or high valued assets through a miniaturized transceiver module, wireless connectivity gateway, middleware, and viewing portal. Its products include GPS SmartSole, a wearable orthotic insole GPS tracking, monitoring, and recovery solution for those at risk of wandering due to Alzheimer's, dementia, and autism; Take Along Tracker 4G, a miniature tracking and SOS device; Sole Protector for GPS Smartsole; Take Along Friends & the Invisabelt, a GPS cellular tracking and monitoring device for young children and toddlers; Protective Medical devices and supplies, such as masks, sanitizers, face shields, UV wands, and various equipment, as well as antibody and antigen rapid test kits and hearing assisted technologies; and VeriTap, an near field communications (NFC) tag and middleware



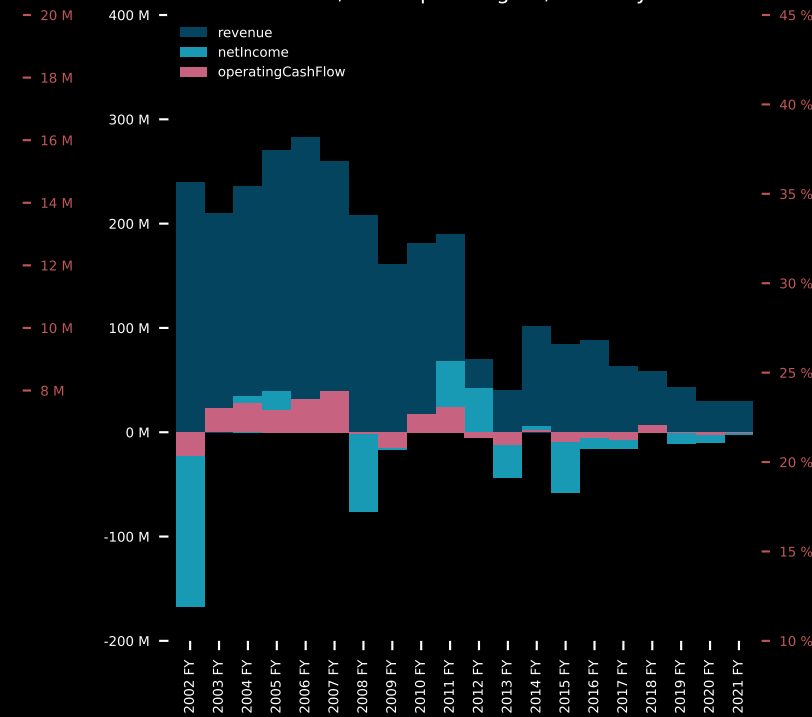
Sales, NI & Operating CF, quarterly



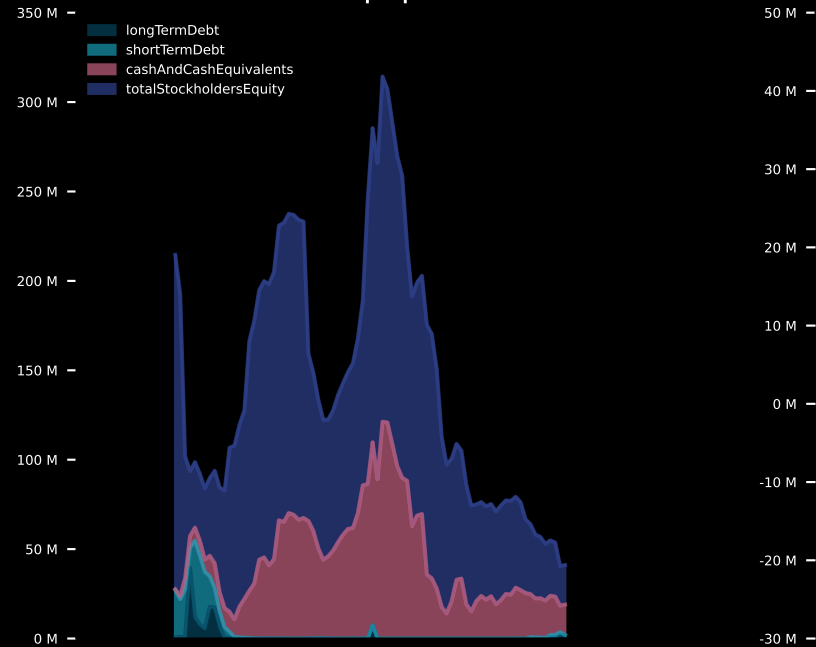
Price vs shares outstanding, quarterly



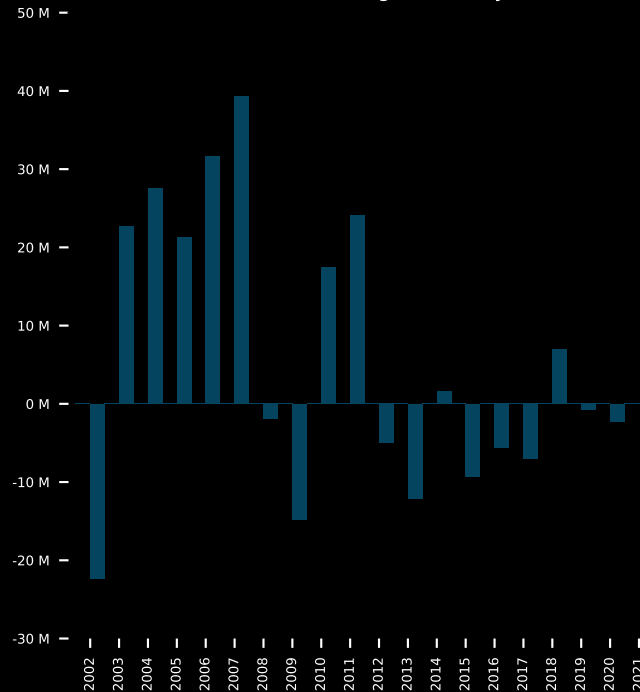
Sales, NI & Operating CF, annually



STL / Communication Equipment / US / 2022-08-23



Owners Earnings, annually

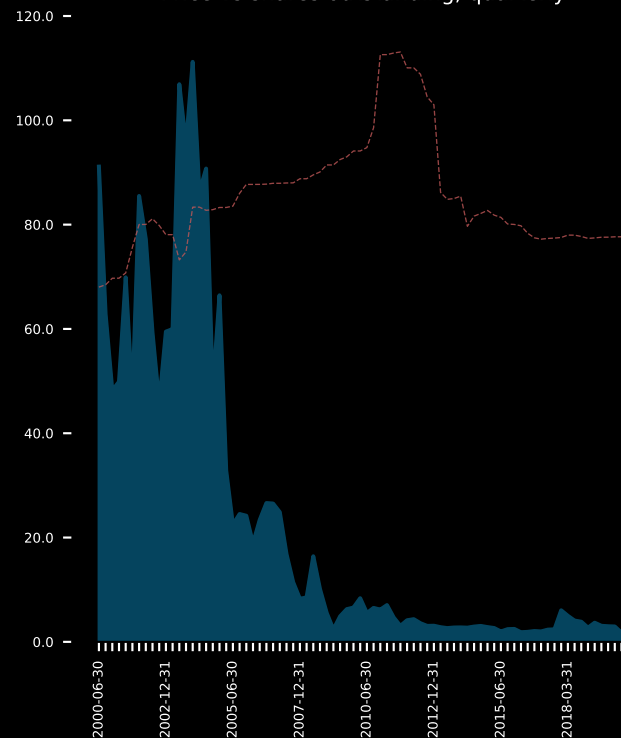


Westell Technologies, Inc., through its subsidiary, Westell, Inc., designs and distributes telecommunications products to telephone companies in the United States. The company operates through three segments: In-Building Wireless (IBW), Intelligent Site Management (ISM), and Communications Network Solutions (CNS). The IBW segment offers indoor distributed antenna systems (DAS); DAS conditioners; digital repeaters; battery backup units; and system components and antennas, including couplers, duplexers, splitters, filters, and tappers for cellular and public safety in-building wireless systems. The ISM segment provides a suite of remote units, which provide machine-to-machine communications that enable operators to remotely monitor, manage, and control site infrastructure and support systems, as well as offers support and deployment services. The CNS segment provides a range of indoor and outdoor network infrastructure, such as integrated cabinets, power distribution products, copper and fiber network connectivity products, fiber access products, and T1 network interface units. The company serves wireless and wireline carriers,

Sales, NI & Operating CF, quarterly



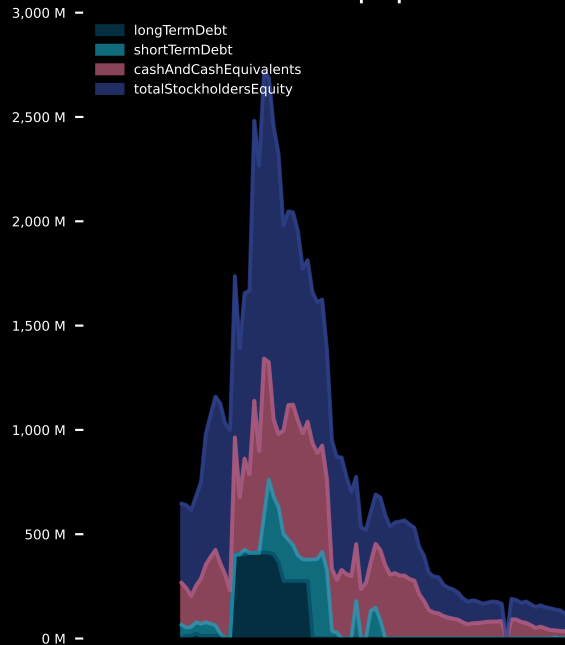
Price vs shares outstanding, quarterly



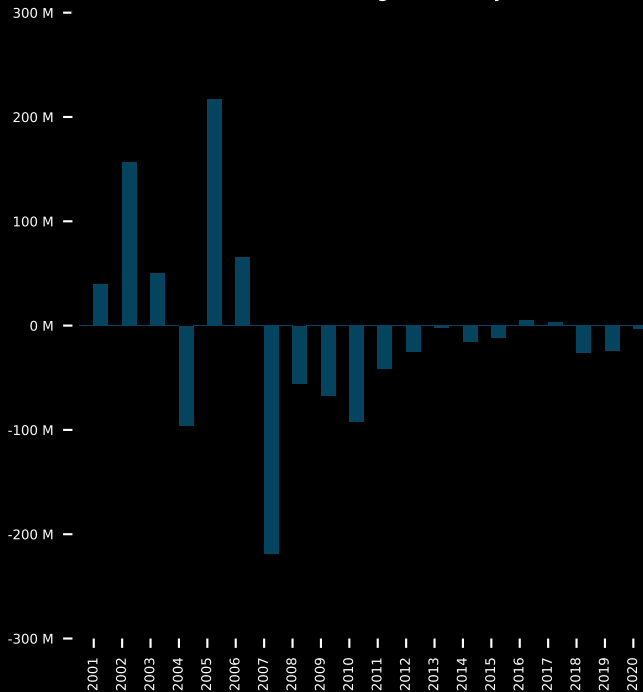
Sales, NI & Operating CF, annually



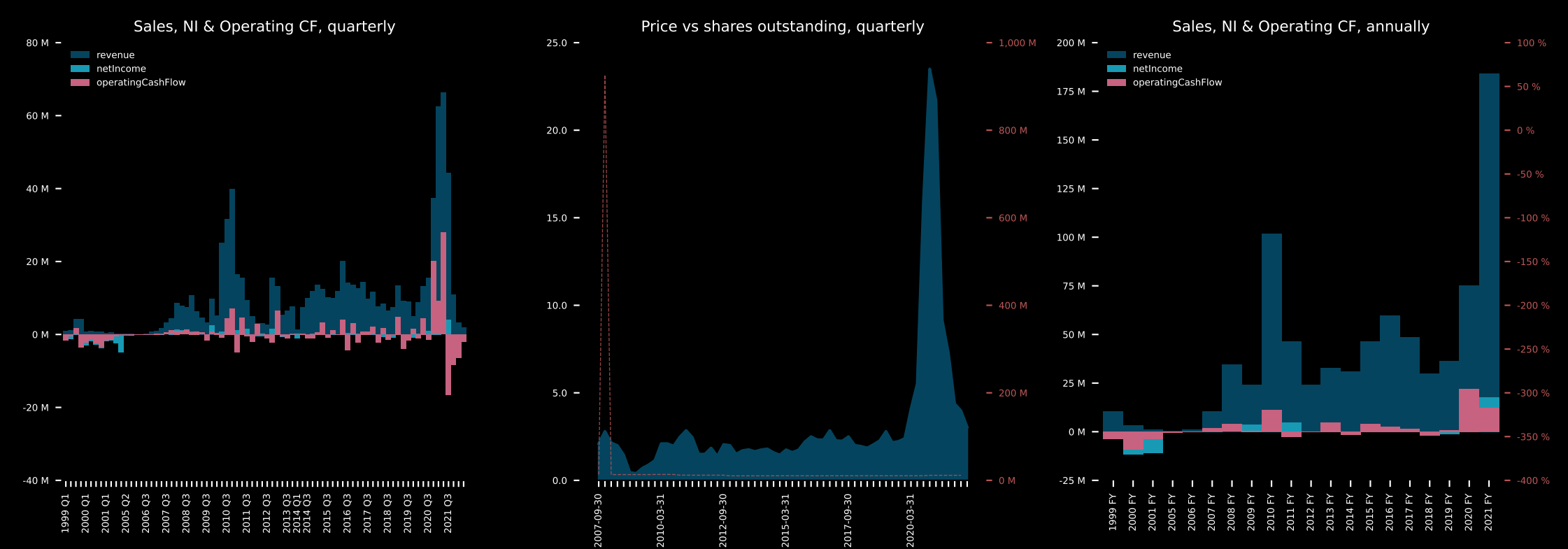
TSI / Communication Equipment / HK / 2022-08-23



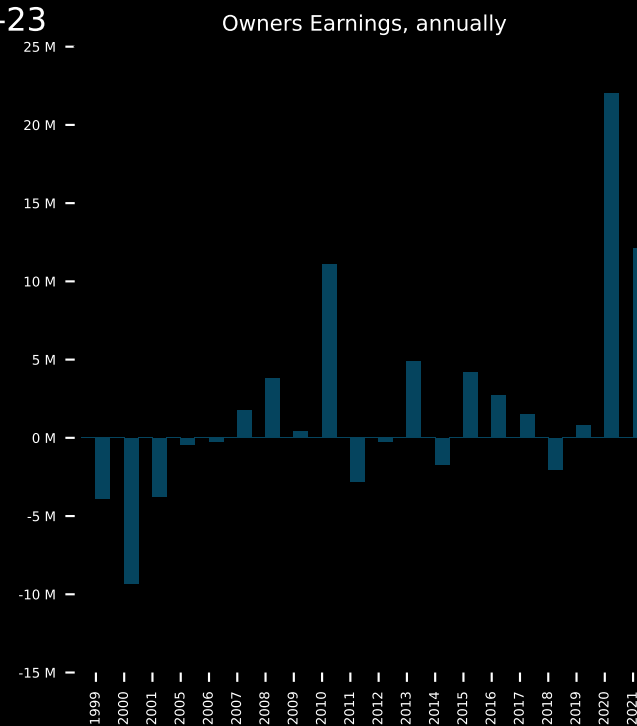
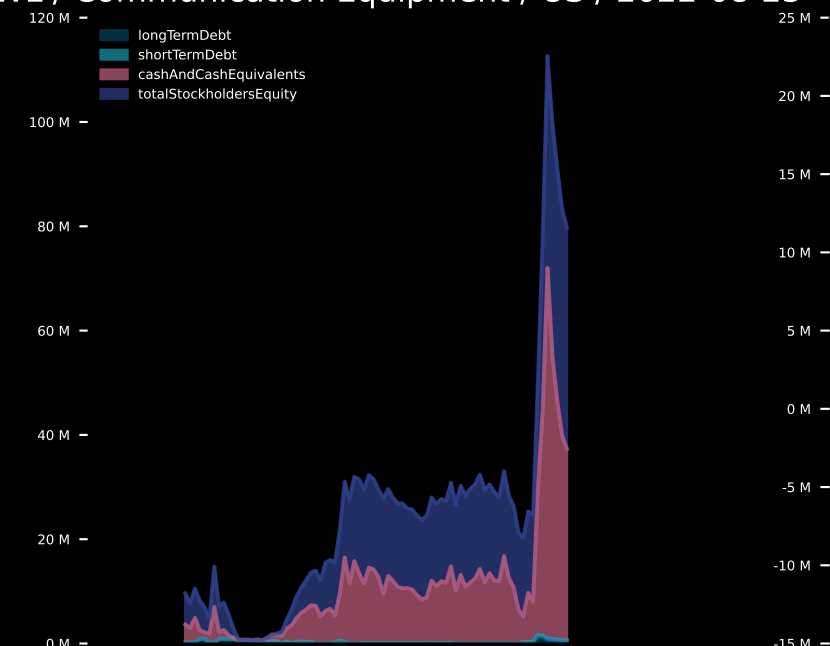
Owners Earnings, annually



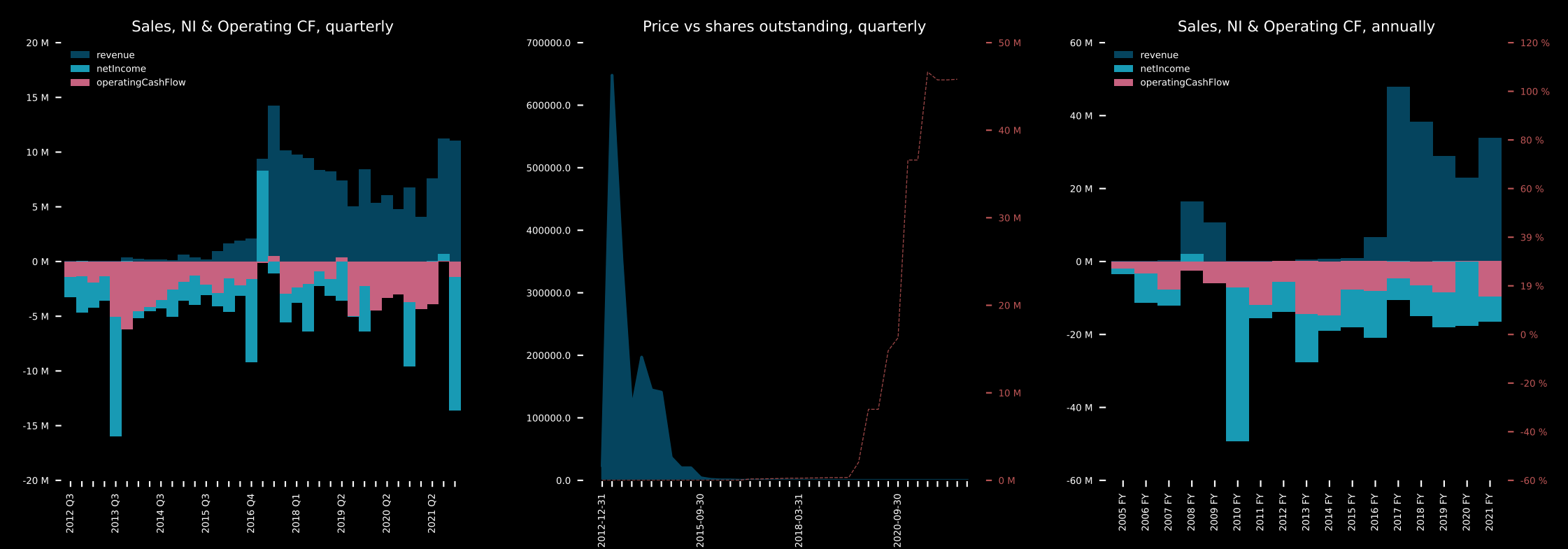
UTStarcom Holdings Corp. operates as a telecom infrastructure provider to develop technology for bandwidth from cloud-based services, mobile, streaming, and other applications in China, India, Japan, Taiwan, and internationally. The company's products include packet transport network, packet aggregation network, multi-services access network, fiber to the X, carrier Wi-Fi solutions, and software defined network controller products, as well as smart retail products. It serves telecommunications and cable service providers. The company was founded in 1991 and is based in Hangzhou, the People's Republic of China.



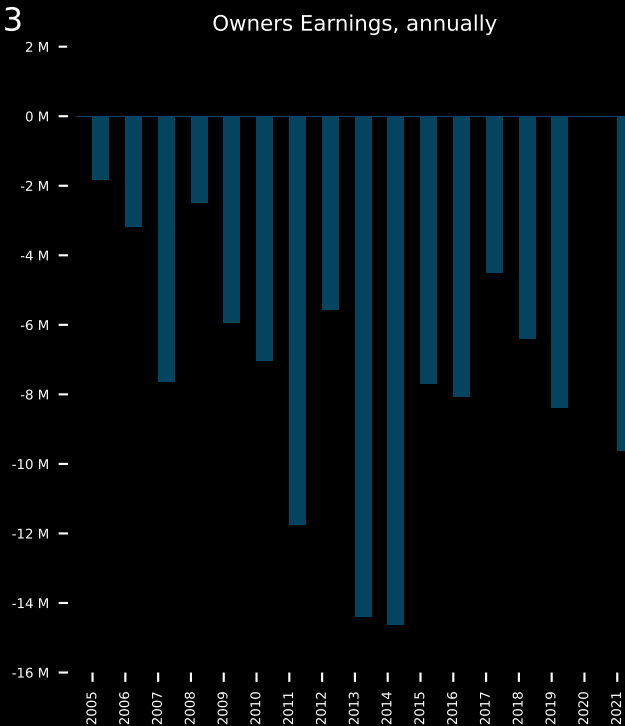
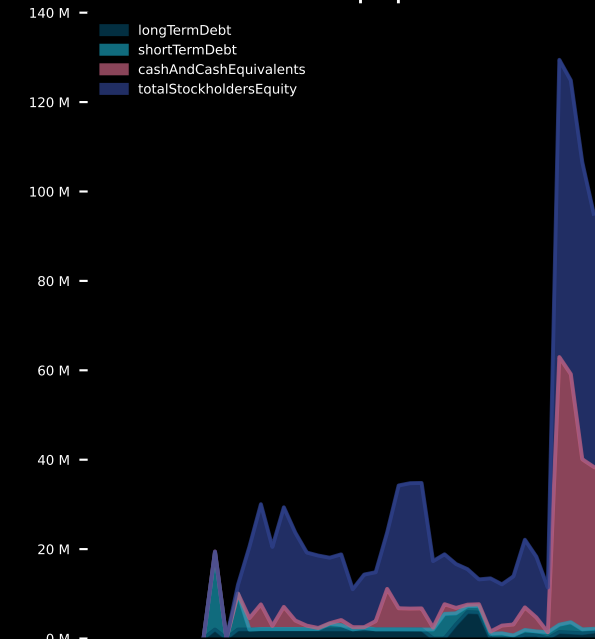
WL / Communication Equipment / US / 2022-08-23



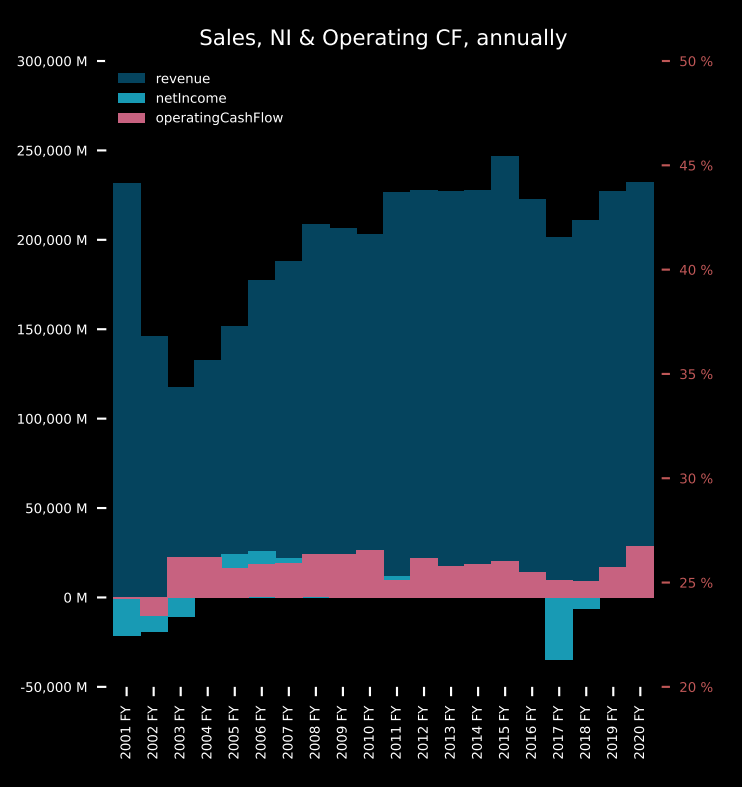
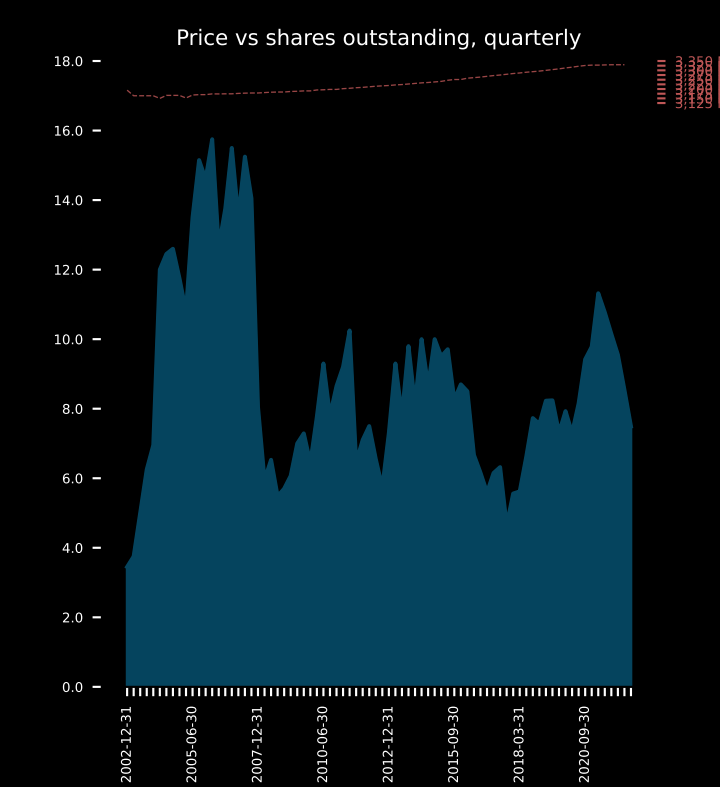
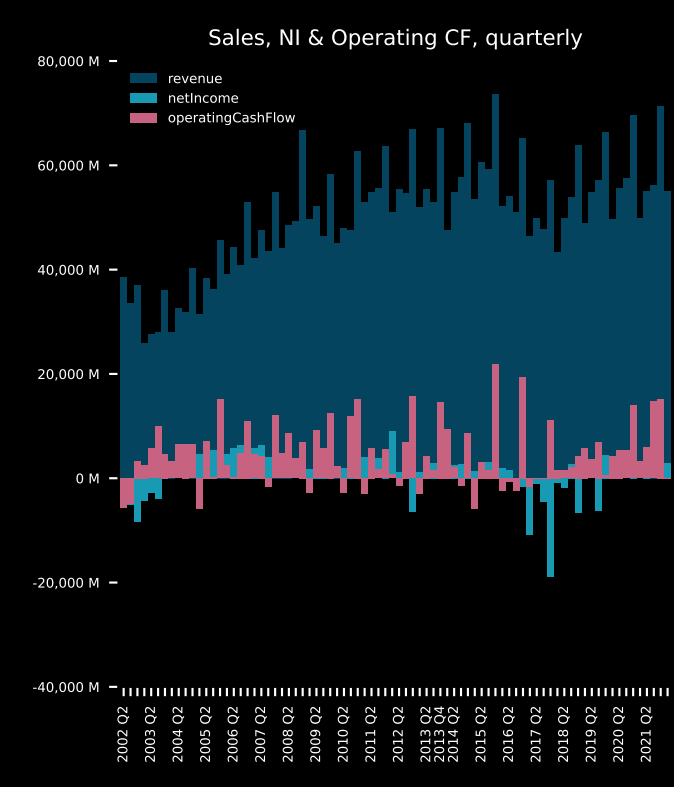
Franklin Wireless Corp. provides intelligent wireless solutions. The company's products include mobile hotspots, routers, trackers, and other devices, which integrates hardware and software enabling machine-to-machine (M2M) applications and the Internet of Things (IoT). It offers M2M and IoT solutions that include embedded modules, and modems and gateways built to deliver connectivity supporting various spectrum of applications based on 5G/4G wireless technology. The company directly markets its products to wireless operators, as well as indirectly through strategic partners and distributors located primarily in the North America, the Caribbean and South America, and Asia. Franklin Wireless Corp. was founded in 1981 and is headquartered in San Diego, California.



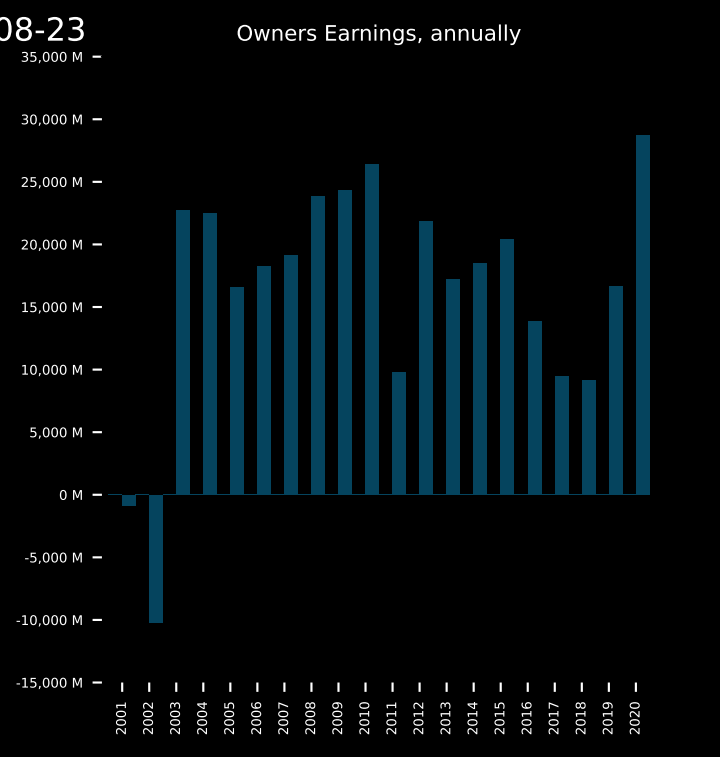
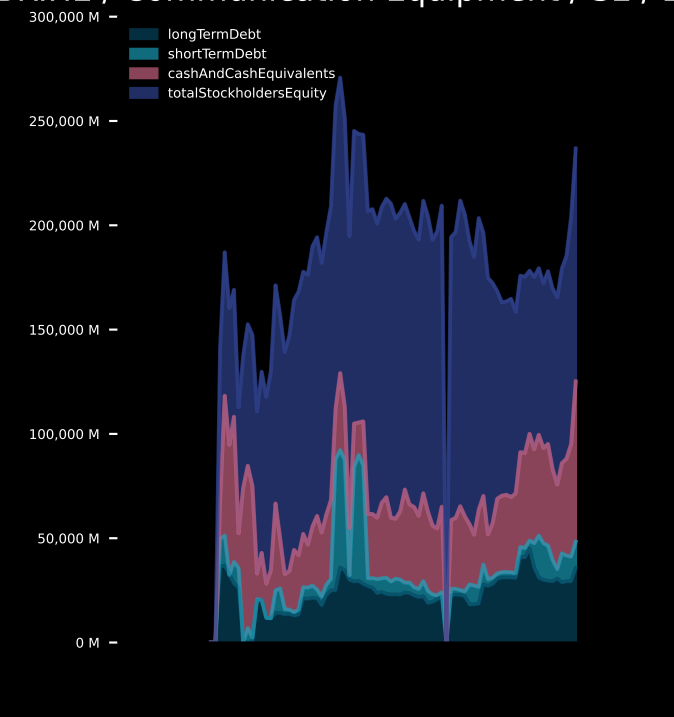
SL / Communication Equipment / US / 2022-08-23



Vislink Technologies, Inc. engages in designs, develops, and delivers wireless communications solutions in North and South America, Europe, Asia, and internationally. It offers live production products and solutions, such as high-definition communication links that reliably capture, transmit, and manage live event footage; a range of high-margin wireless camera transmitter and receiver products; HCAM, a 4K Ultra HD-capable on-camera wireless system; MicroLite 3, a compact wireless HD transmitter; IMTDragonFly, an ultra-compact H.D. solution; Quantum, an ultra-low latency and waveform agnostic central receiver; and ultra-compact onboard solutions. The company also offers miniature transmitters and handheld receivers, such as HHT3 and Mobile Commander for tactical surveillance; airborne video downlink system, a comprehensive aerial-based video transmission solution that delivers real-time surveillance to enhance law enforcement, emergency, and critical infrastructure operations; and MSAT, a portable tri-band satellite antenna system, as well as DVE6100 encoder and IRD6200 decoder electronics units. It serves live production, military, and commercial markets.

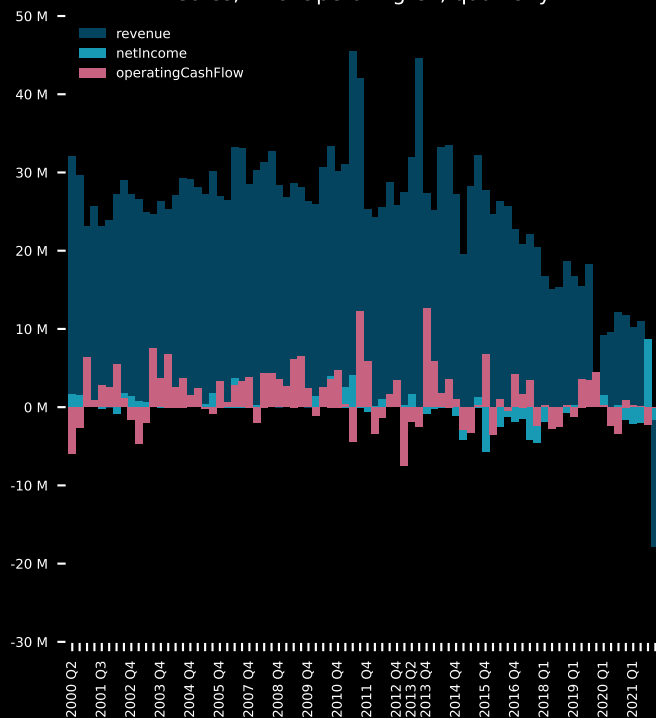


BR.HE / Communication Equipment / SE / 2022-08-23

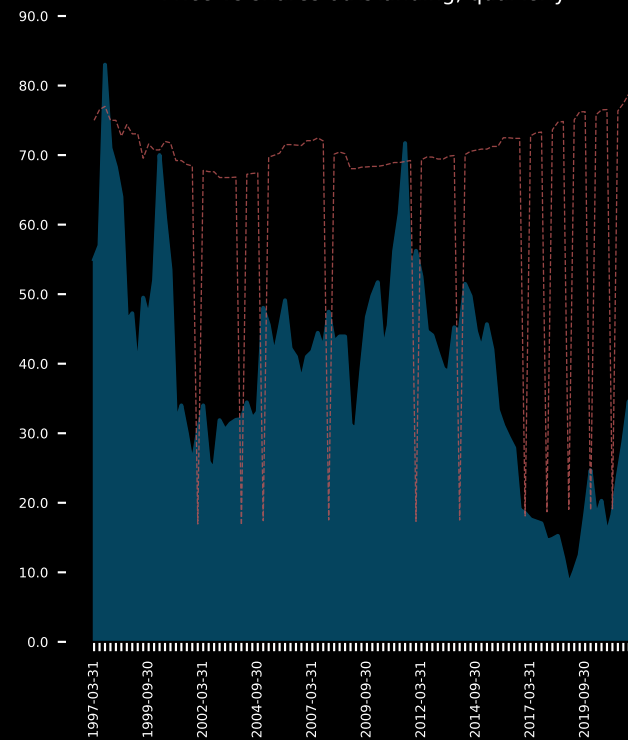


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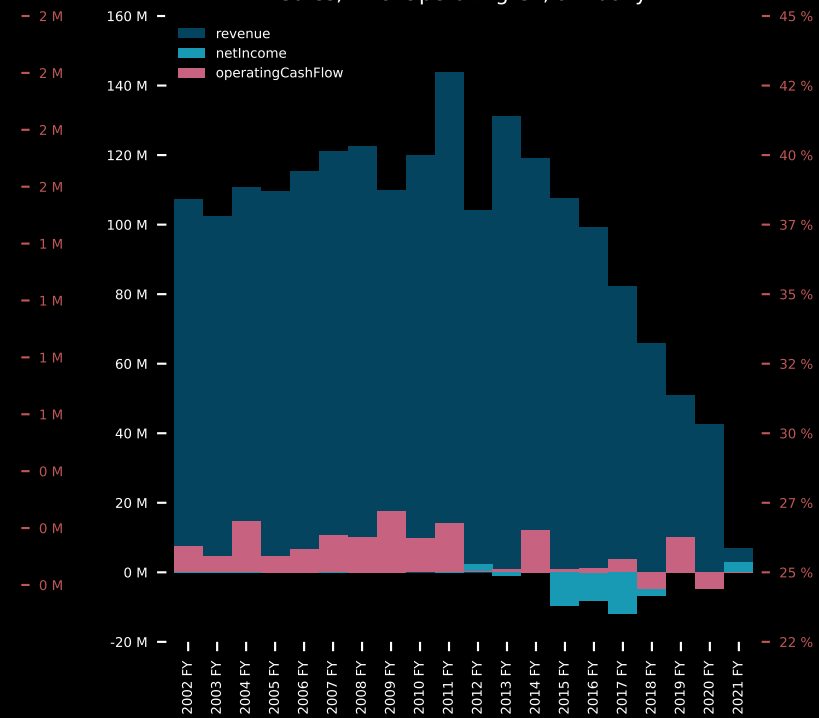
Sales, NI & Operating CF, quarterly



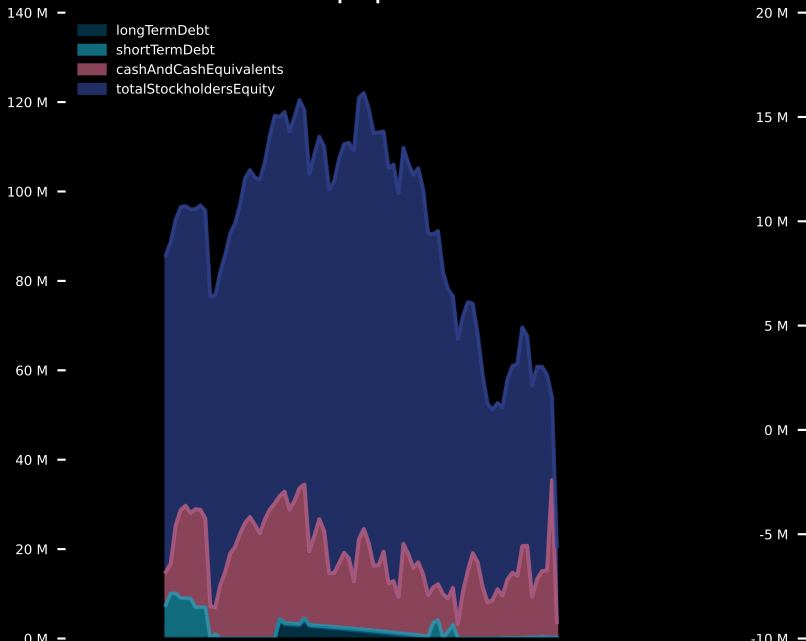
Price vs shares outstanding, quarterly



Sales, NI & Operating CF, annually



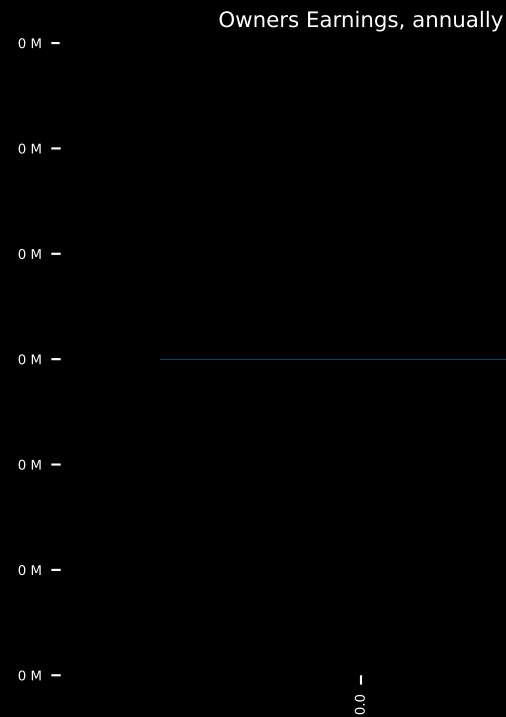
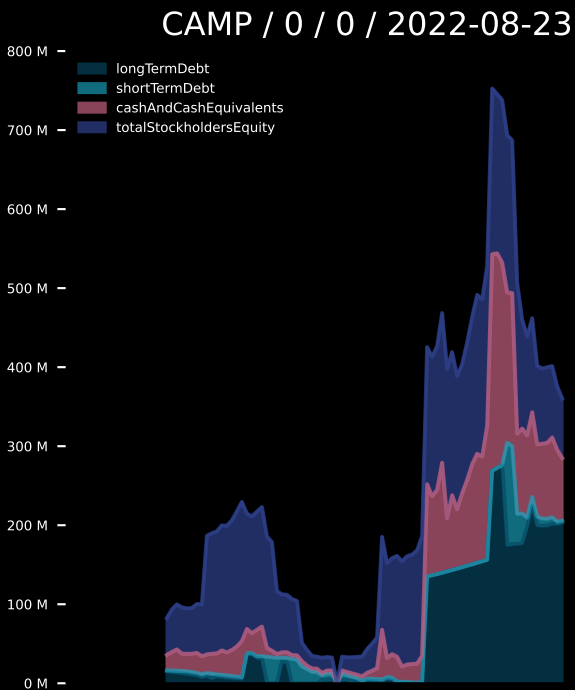
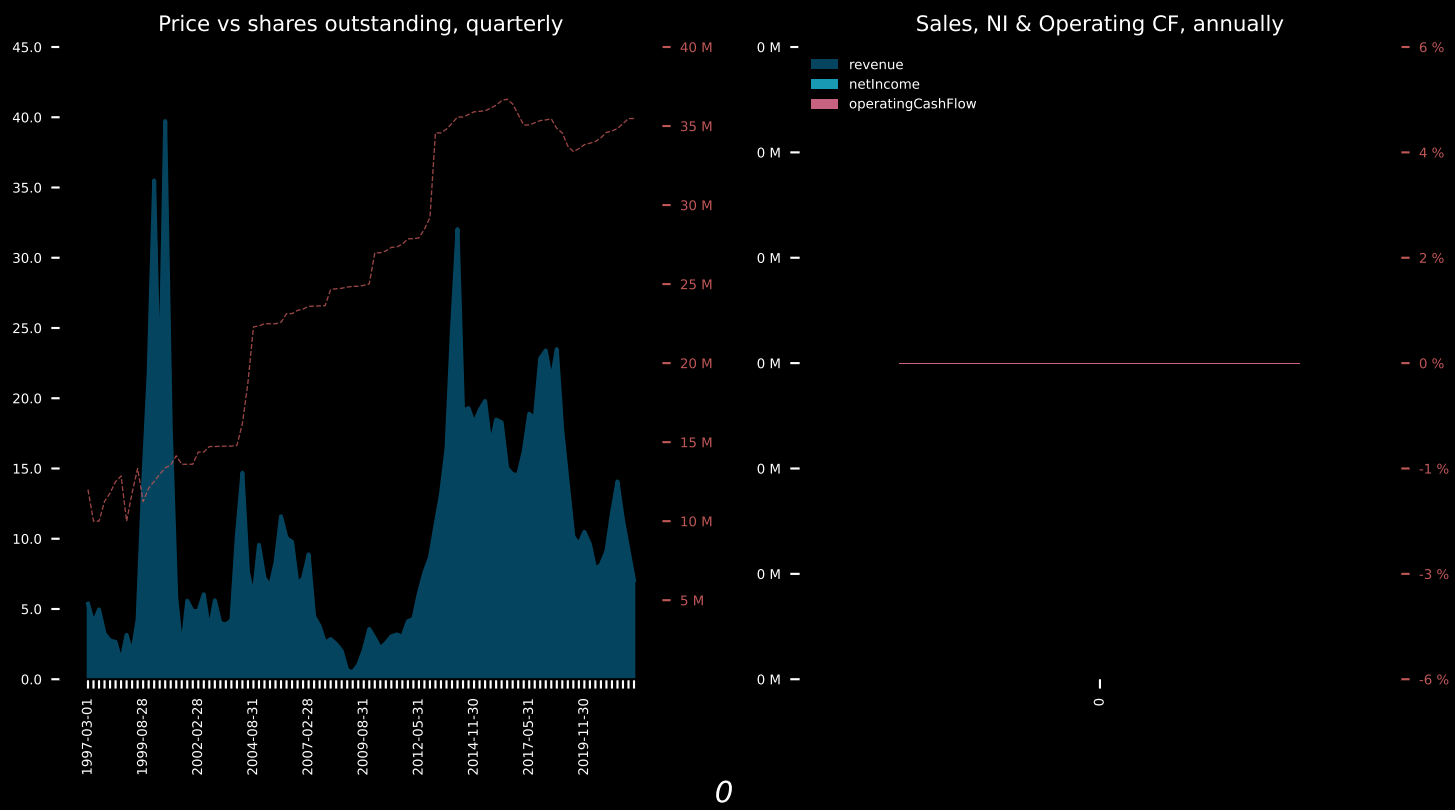
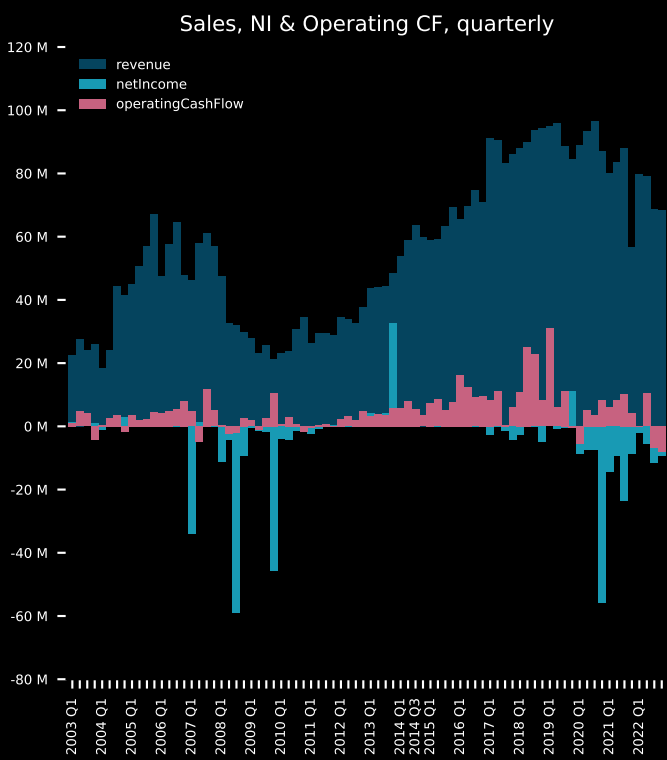
CS / Communication Equipment / US / 2022-08-23



Owners Earnings, annually



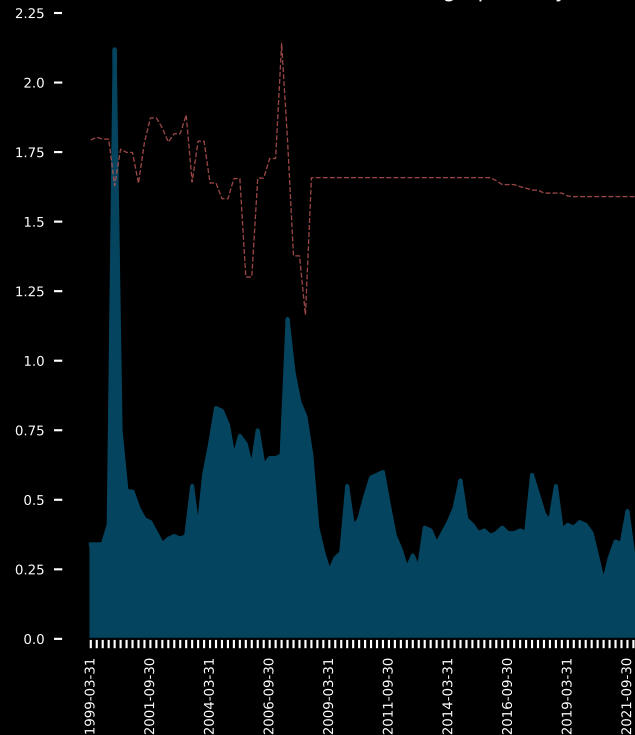
Communications Systems, Inc., through its subsidiaries, provides technology solutions and infrastructure in the commercial, healthcare, financial, and education market segments. The company's technology solutions portfolio includes IT managed service, security products and services, cloud migrations, network virtualization and resiliency, wired and wireless network design and implementation, and converged infrastructure configuration, deployment, and management, as well as software-designed wide-area network. Communications Systems, Inc. was founded in 1969 and is headquartered in Minnetonka, Minnesota.



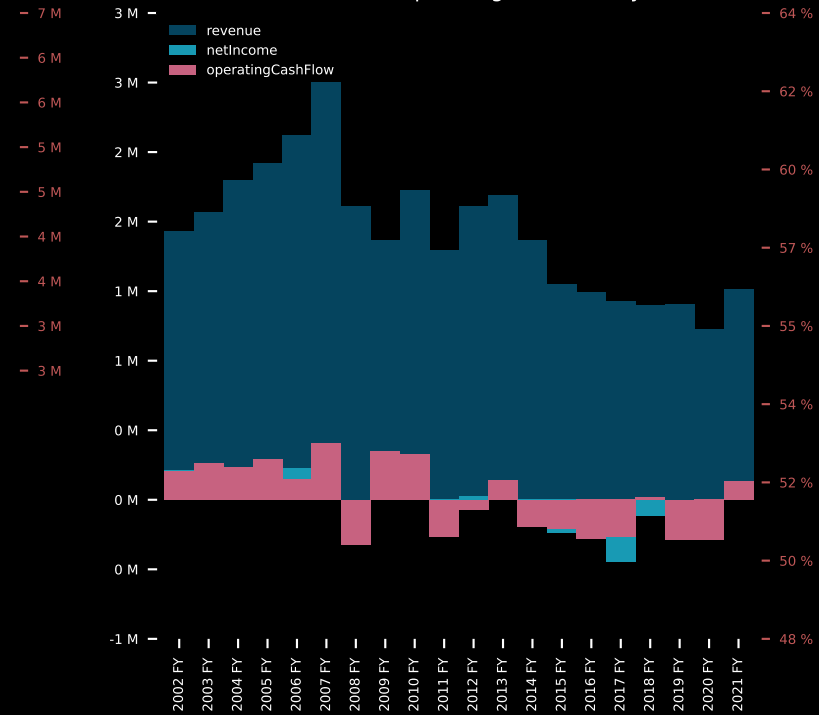
Sales, NI & Operating CF, quarterly



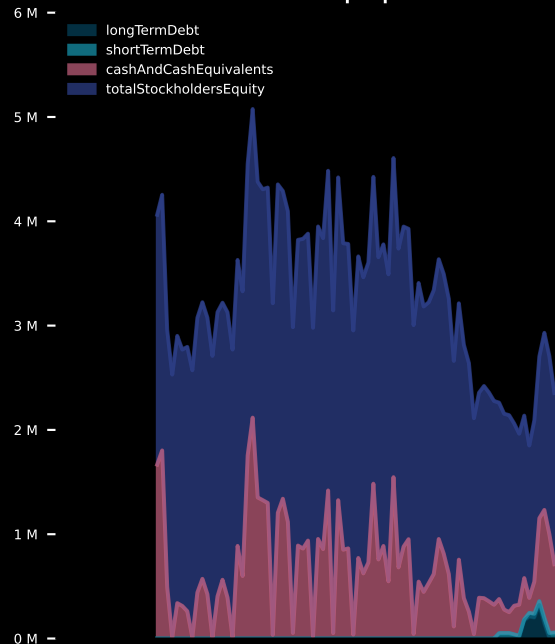
Price vs shares outstanding, quarterly



Sales, NI & Operating CF, annually



ST / Communication Equipment / US / 2022-08-23

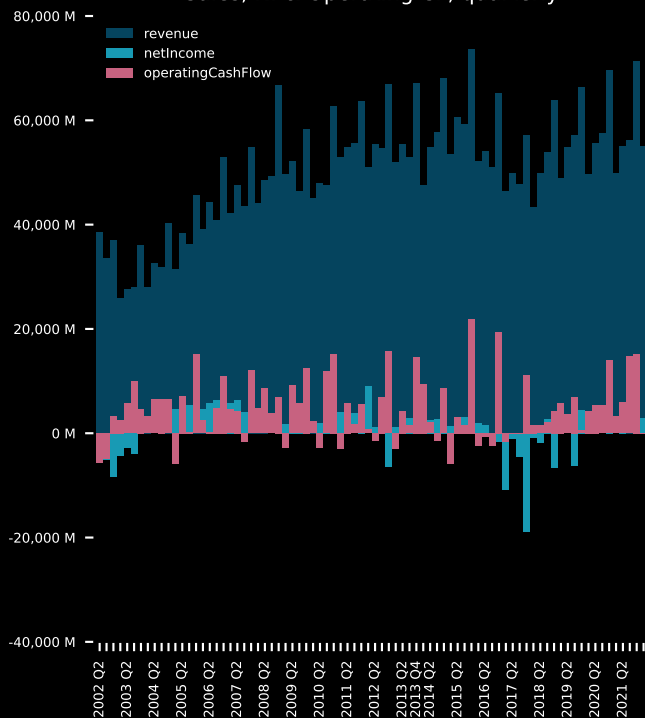


Owners Earnings, annually

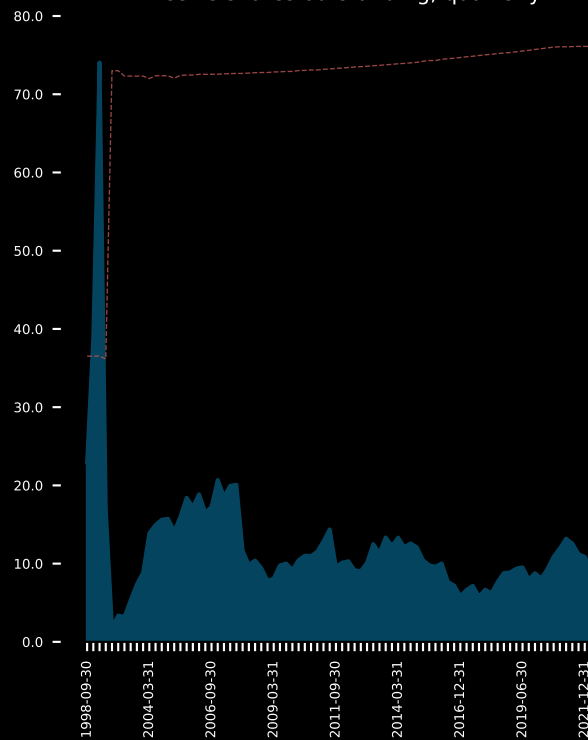


Electronic Systems Technology, Inc., doing business as ESTeem Wireless Modems, designs, develops, manufactures, and markets industrial wireless products and accessories in the United States and internationally. The company's ESTeem industrial wireless products provide communication links between computer networks, network enabled devices, and mobile devices without cables. It also offers data radio products for process automation in commercial, industrial, and government arenas, as well as various accessories, such as antennas, power supplies, and cable assemblies. In addition, the company provides repair and upgrade services; and professional services, such as site survey testing, system start-up, and custom engineering. Its products are used in various applications, including water/wastewater, oil/gas, mining, and industrial automation. The company markets its products through direct sales, sales representatives, resellers, and system integrators. Electronic Systems Technology, Inc. was founded in 1982 and is based in Kennewick, Washington.

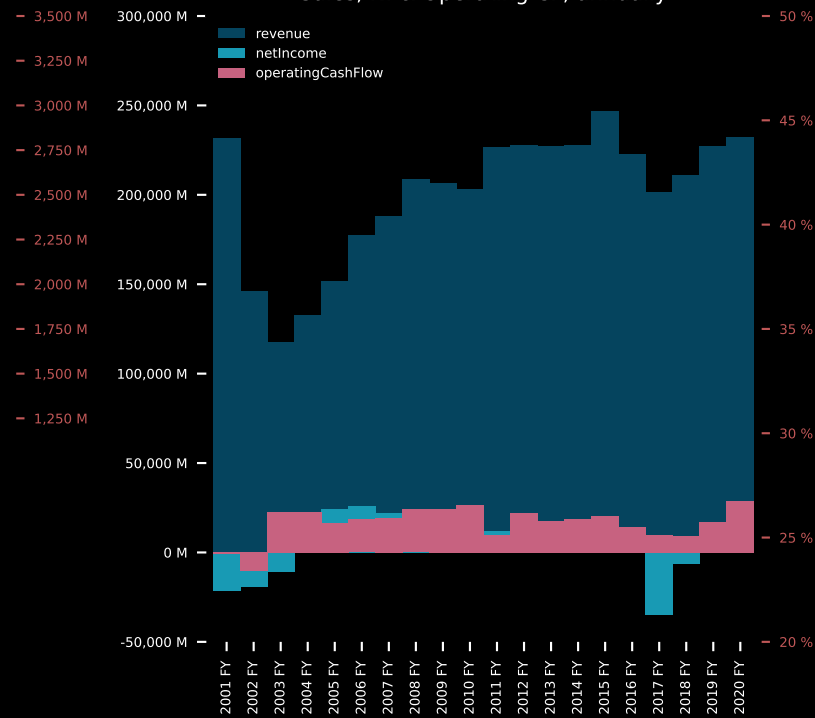
Sales, NI & Operating CF, quarterly



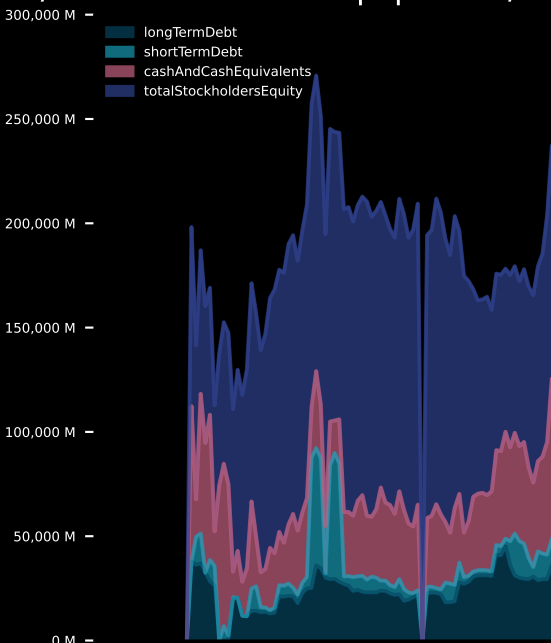
Price vs shares outstanding, quarterly



Sales, NI & Operating CF, annually



RIC / Communication Equipment / SE / 2022-08-23

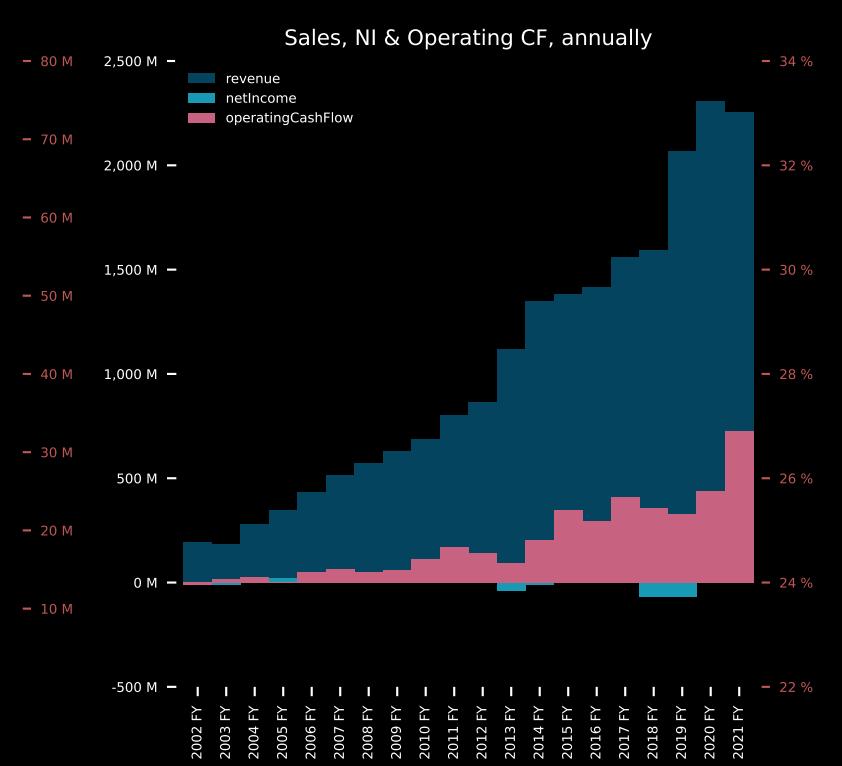
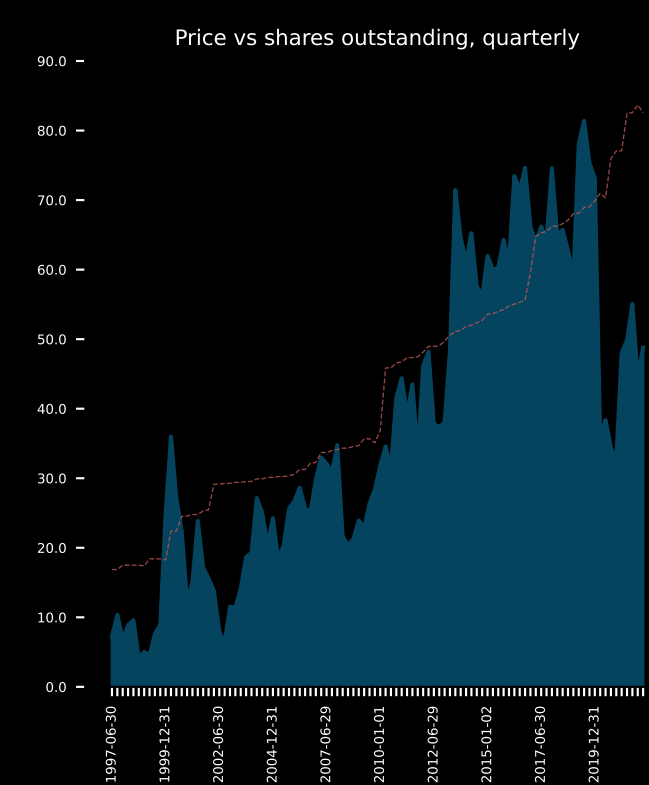
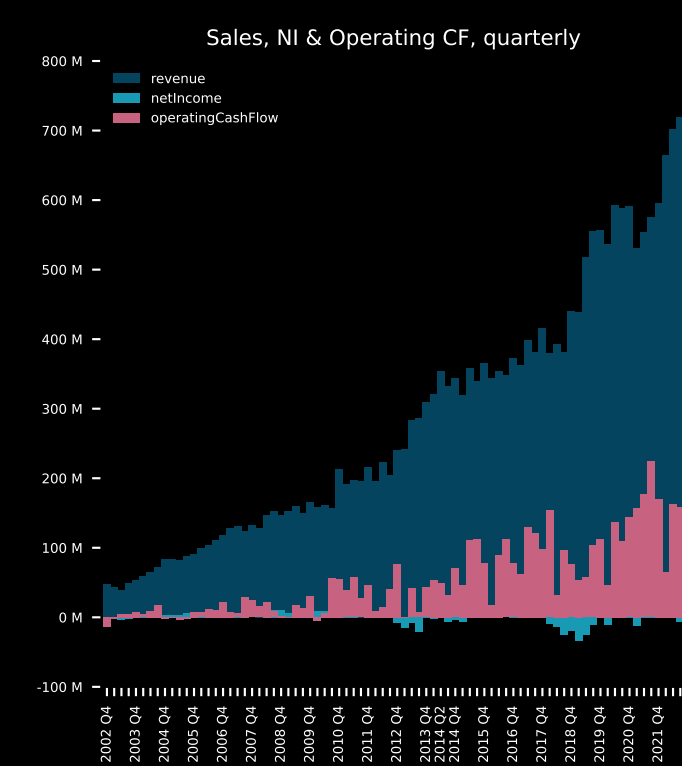


Owners Earnings, annually

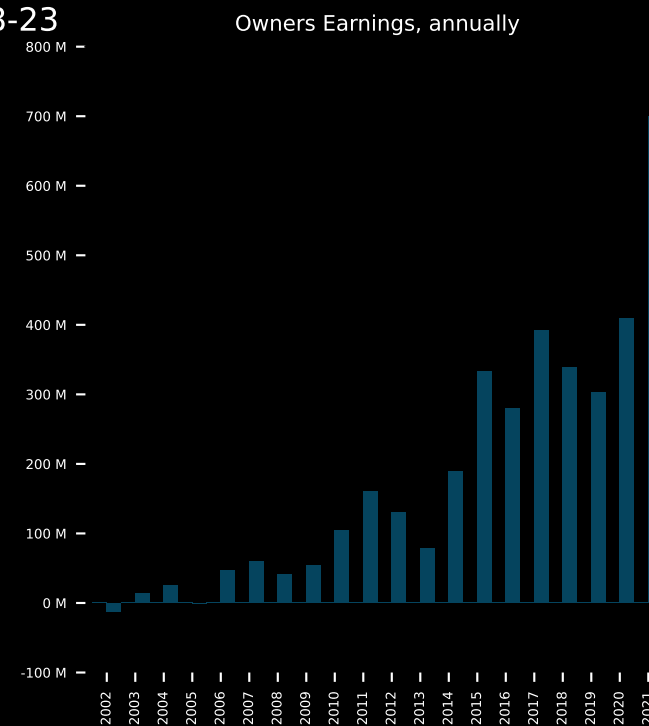
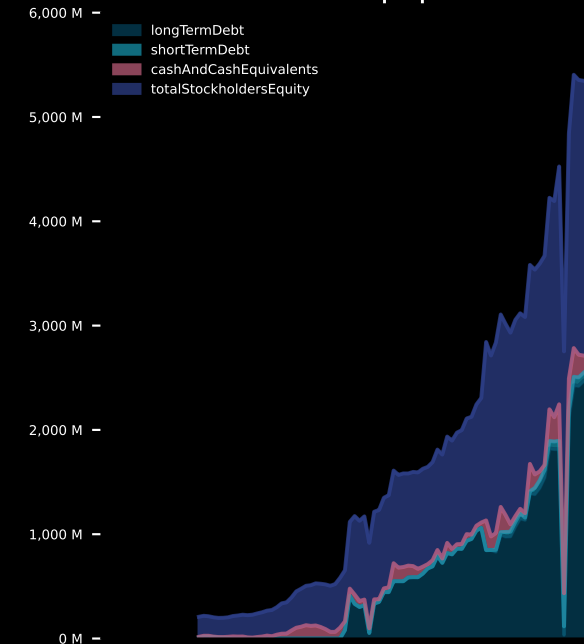


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The chart displays three financial metrics over a 21-quarter period. Revenue (dark blue) shows a major peak in 2002 Q1 at approximately 34 M. Net income (light blue) peaks around 2013 Q1 at about 15 M. Operating cash flow (pink) has a sharp spike in 2013 Q1 reaching over 40 M, followed by a significant drop to nearly -12 M in 2013 Q2. The chart uses a grouped bar format with a light gray background and horizontal grid lines.

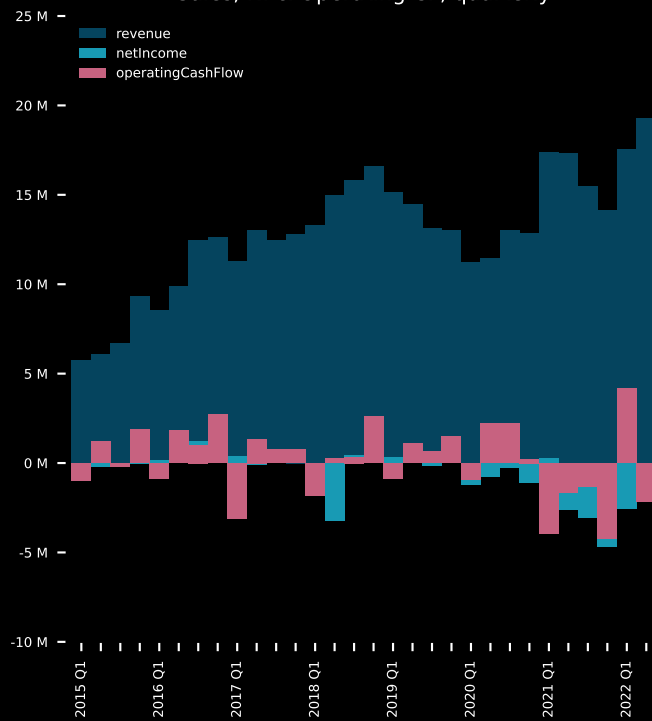


SAT / Communication Equipment / US / 2022-08-23

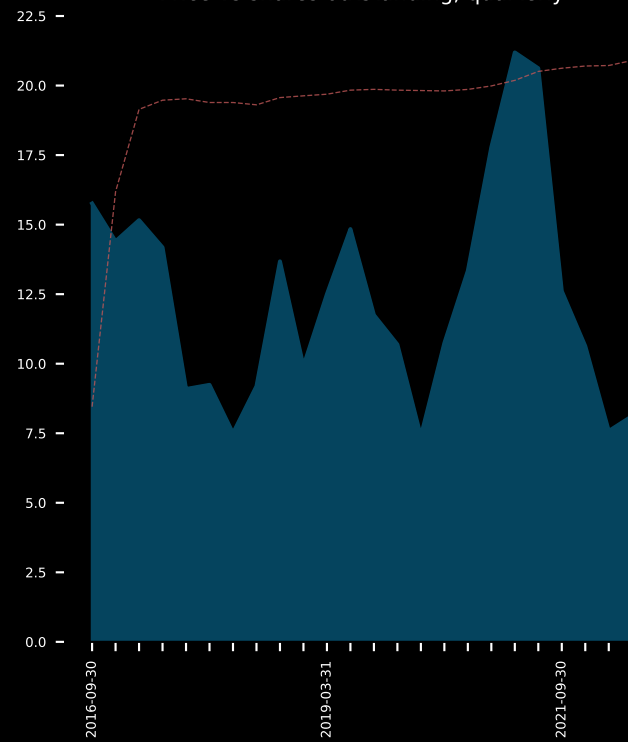


Viasat, Inc. provides broadband and communications products and services worldwide. The company's Satellite Services segment offers satellite-based fixed broadband services, including broadband internet access and voice over internet protocol services to consumers and businesses; in-flight entertainment, internet, and aviation software services to commercial airlines; community internet services; mobile broadband services, including satellite-based internet services to energy offshore vessels, cruise ships, consumer ferries, and yachts; and advanced software and communication infrastructure services, which include ultra-secure solutions IP connectivity, bandwidth-optimized over-the-top applications, industrial internet-of-things big data enablement, and industry-leading machine learning analytics. This segment provides broadband Internet services to approximately 590,000 subscribers. Its Commercial Networks segment offers fixed satellite communication systems comprising satellite network infrastructure and ground terminals; mobile broadband satellite communication systems; antenna systems for

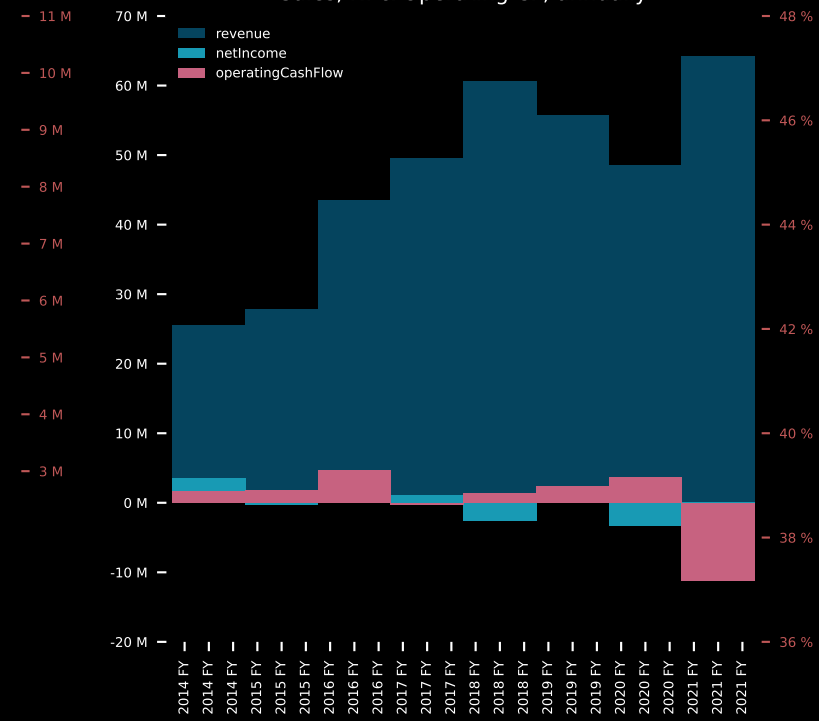
Sales, NI & Operating CF, quarterly



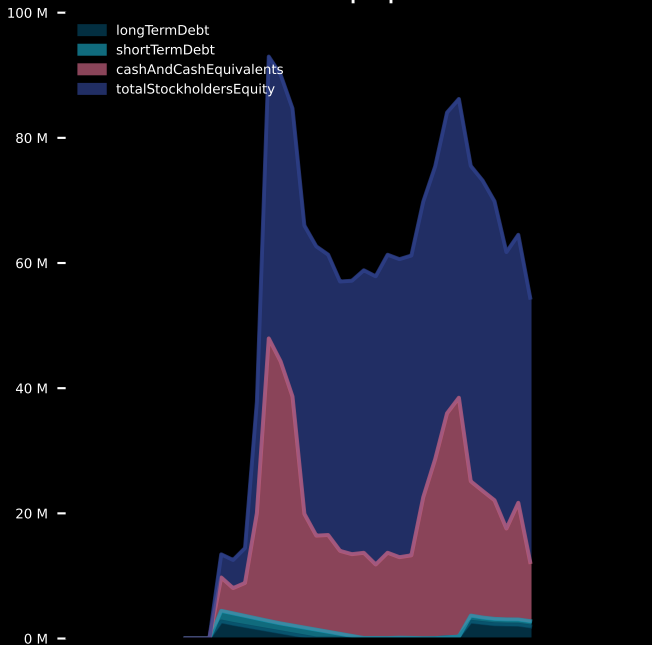
Price vs shares outstanding, quarterly



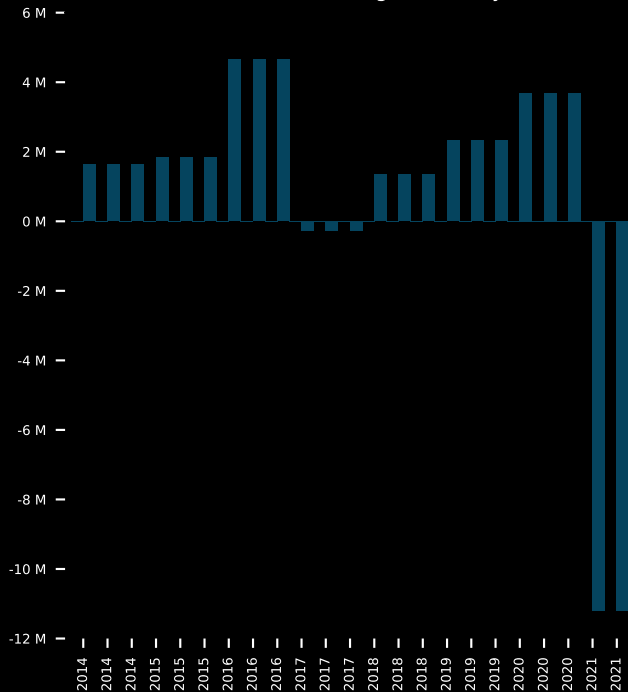
Sales, NI & Operating CF, annually



RG / Communication Equipment / US / 2022-08-23

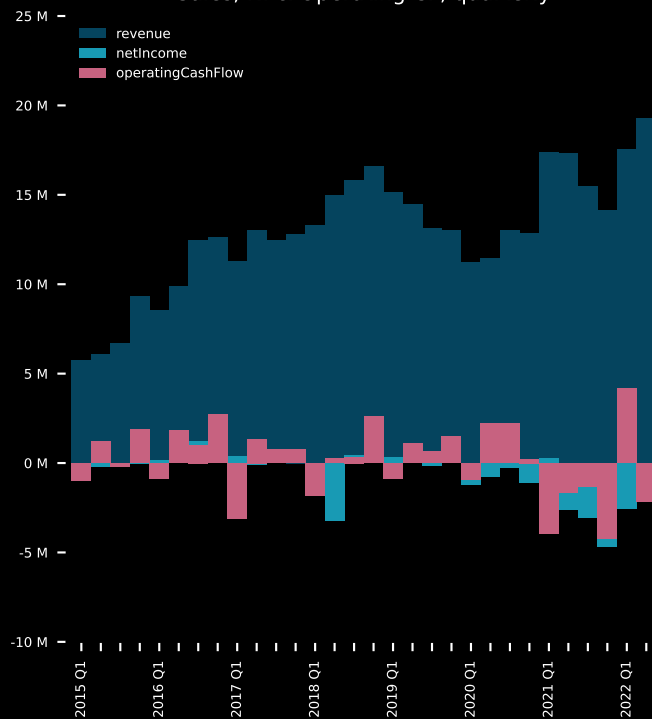


Owners Earnings, annually

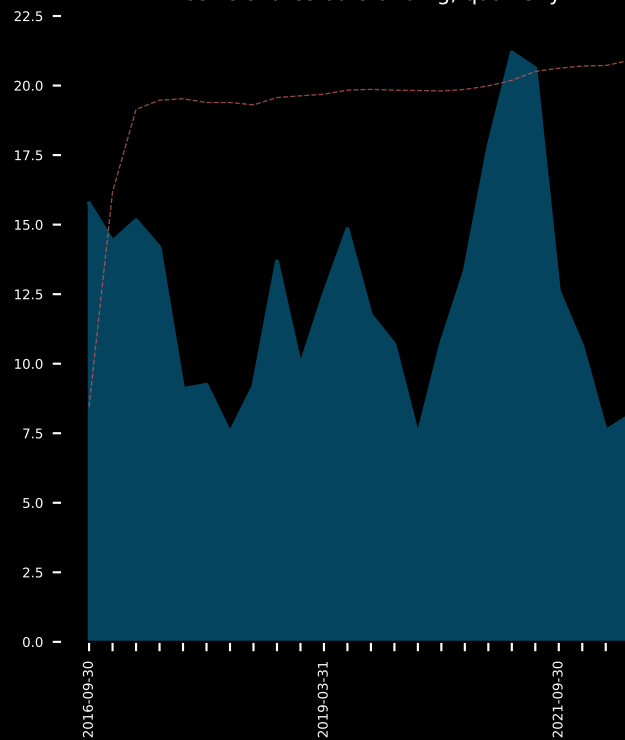


Airgain, Inc. designs, develops, and engineers antenna products for original equipment and design manufacturers, vertical markets, chipset vendors, service providers, value-added resellers and software developers worldwide. The company's products include MaxBeam embedded antennas; profile embedded antennas; profile contour embedded antennas; ultra-embedded antennas; SmartMax embedded antennas; and MaxBeam carrier class antennas, as well as automotive, fleet, public safety, and machine-to-machine antennas under the Antenna Plus brand. It provides embedded antenna technologies to enable high performance wireless networking in a range of devices and markets, including consumer, enterprise, and automotive. The company was formerly known as AM Group and changed its name to Airgain, Inc. in 2004. Airgain, Inc. was incorporated in 1995 and is headquartered in San Diego, California.

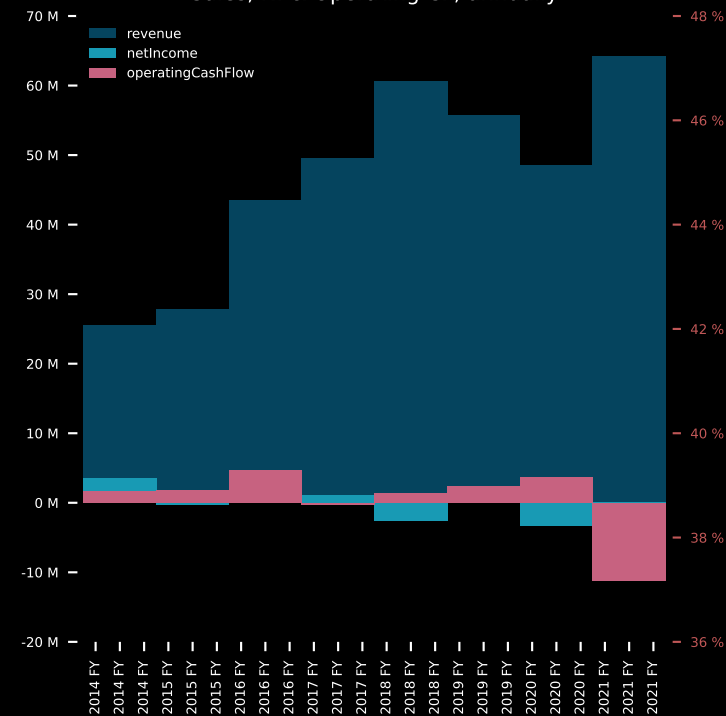
Sales, NI & Operating CF, quarterly



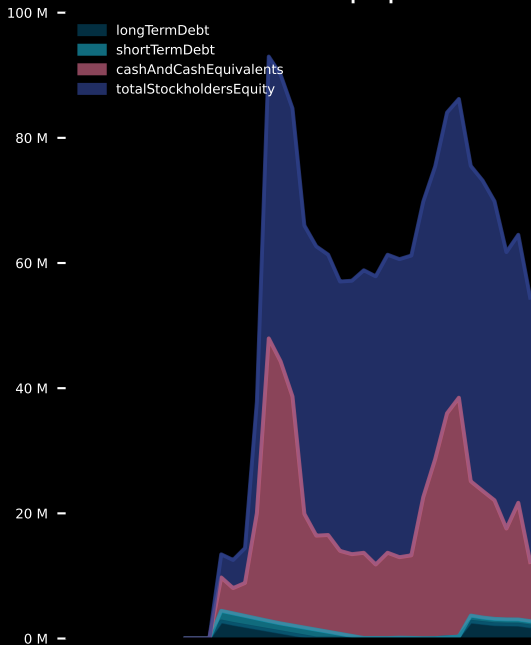
Price vs shares outstanding, quarterly



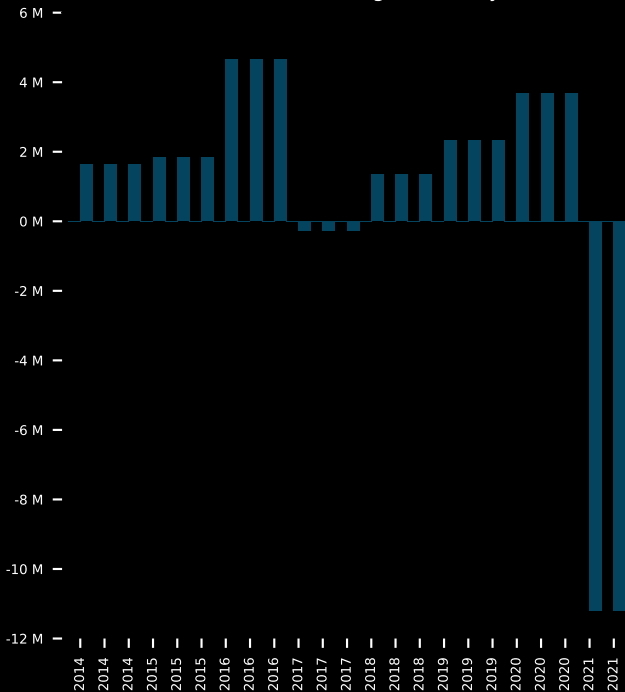
Sales, NI & Operating CF, annually



RG / Communication Equipment / US / 2022-08-23

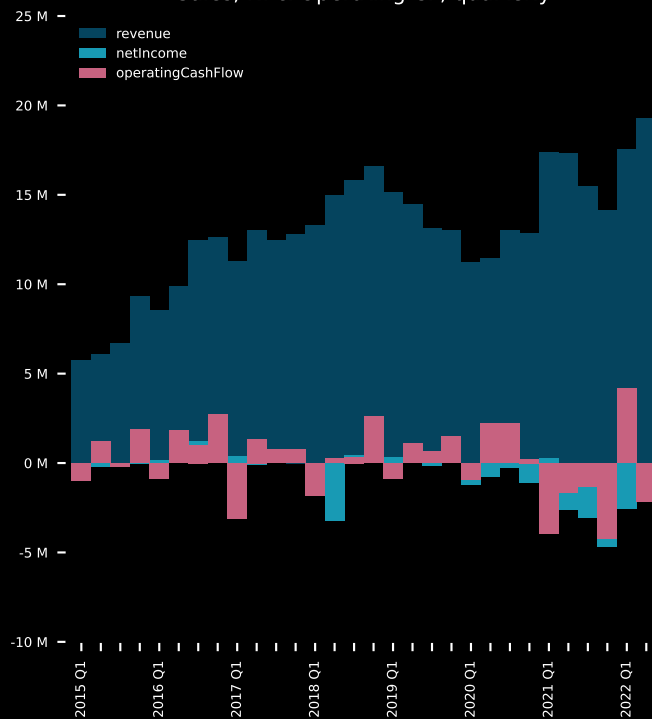


Owners Earnings, annually

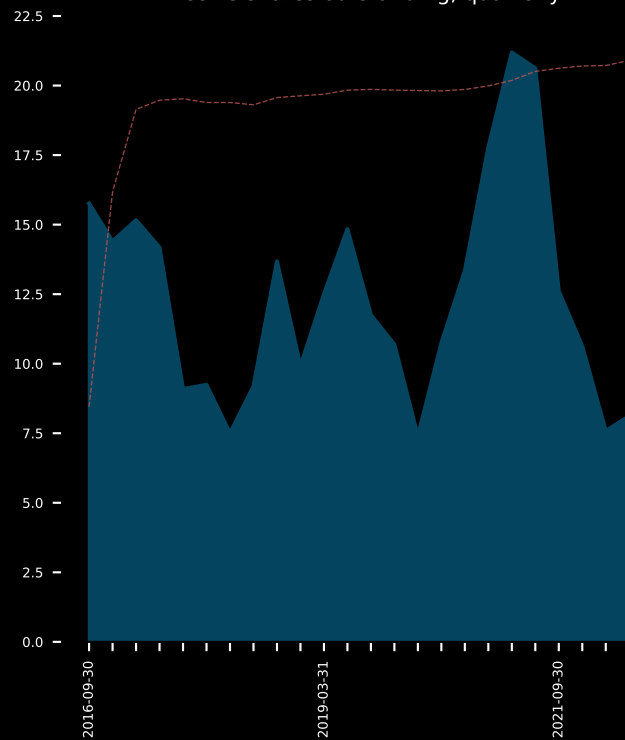


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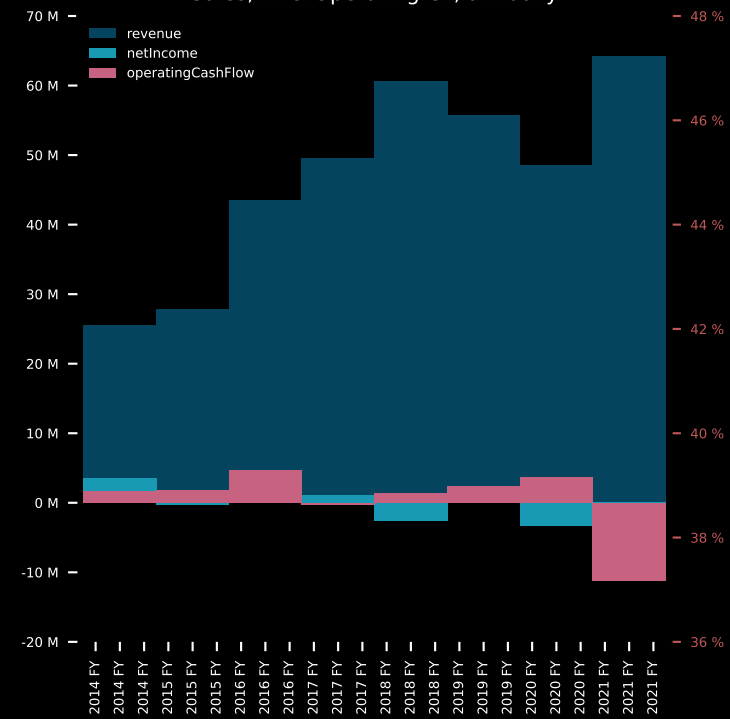
Sales, NI & Operating CF, quarterly



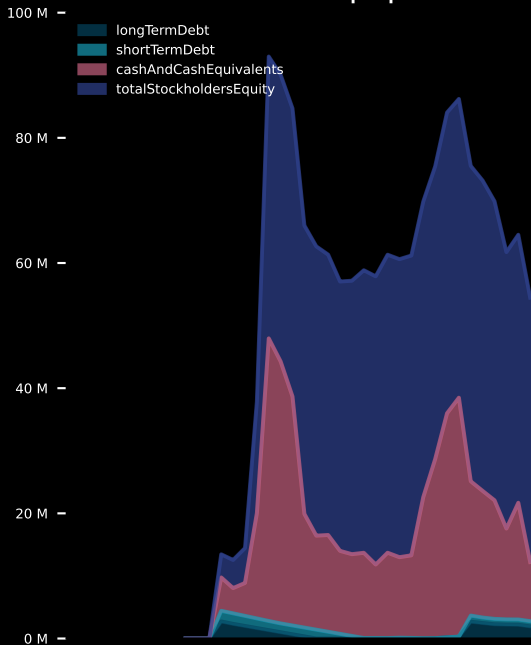
Price vs shares outstanding, quarterly



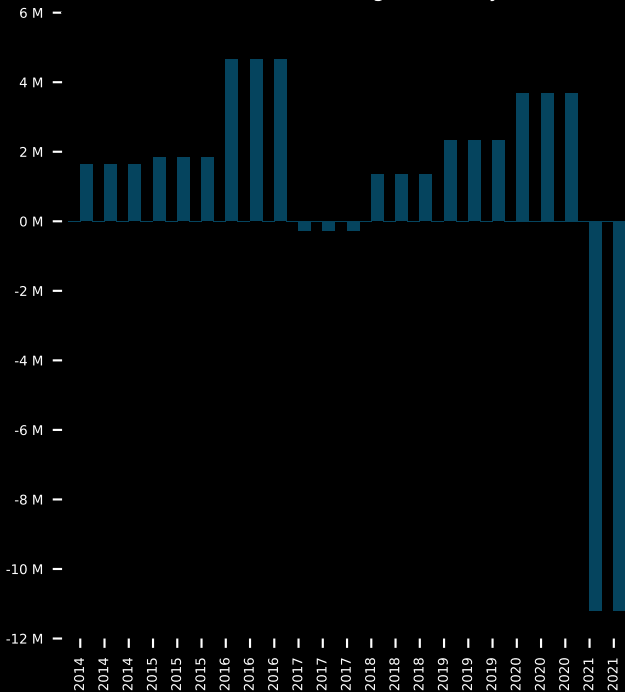
Sales, NI & Operating CF, annually



RG / Communication Equipment / US / 2022-08-23

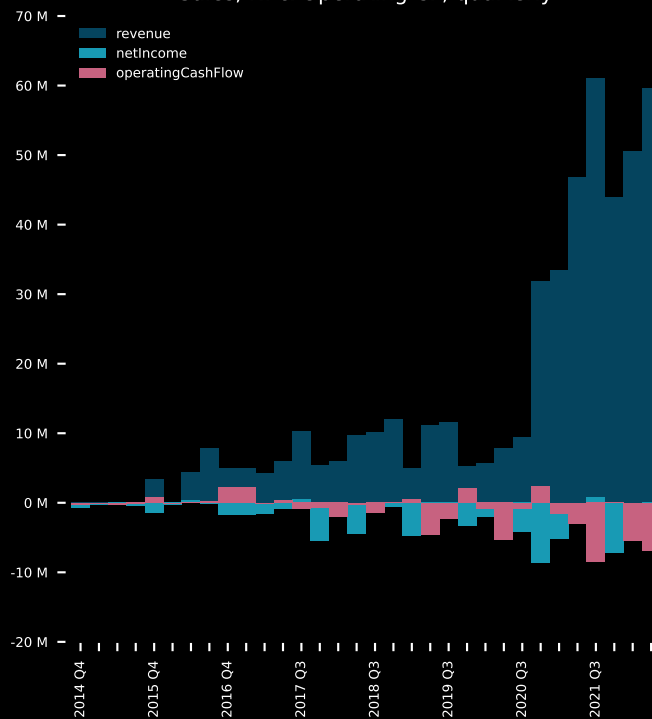


Owners Earnings, annually

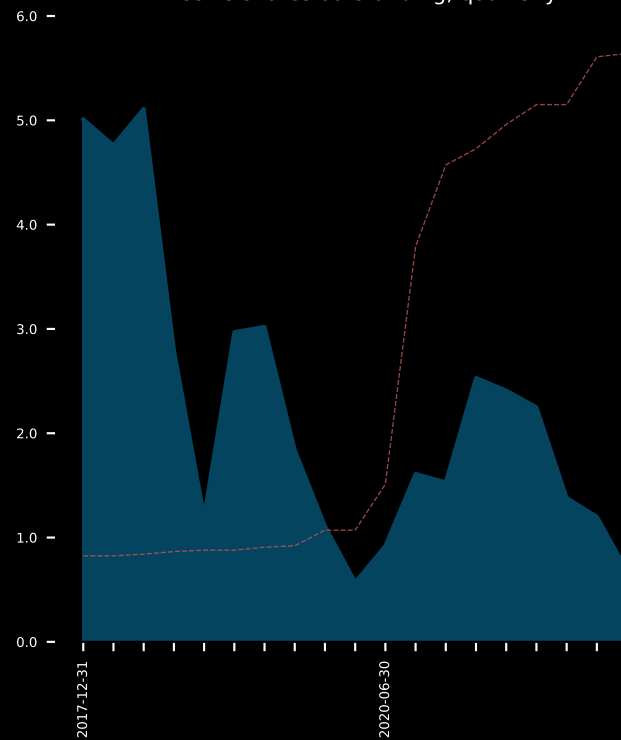


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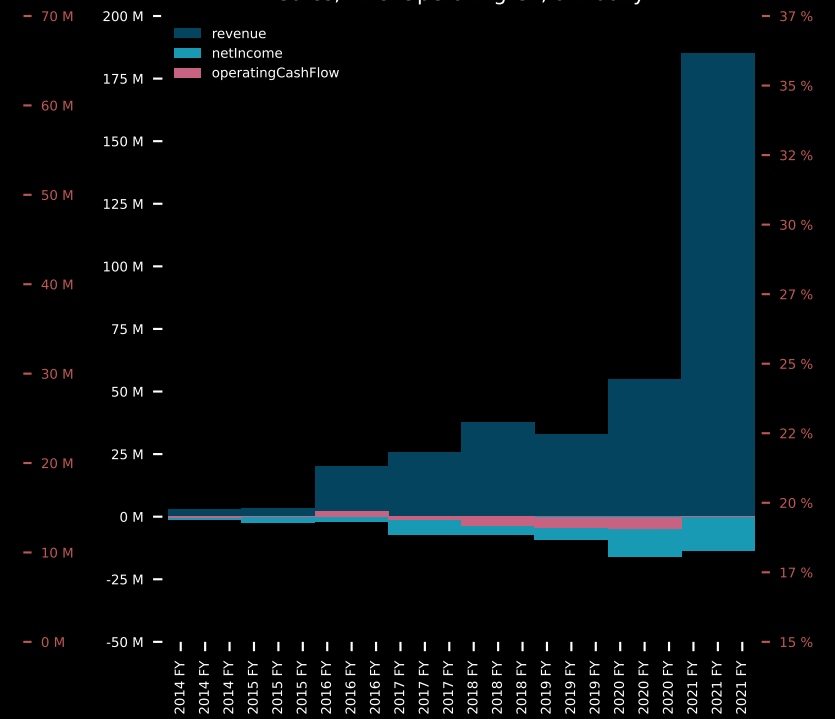
Sales, NI & Operating CF, quarterly



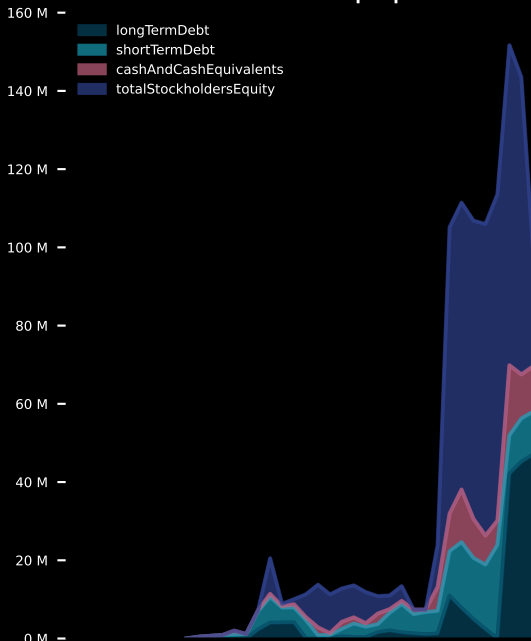
Price vs shares outstanding, quarterly



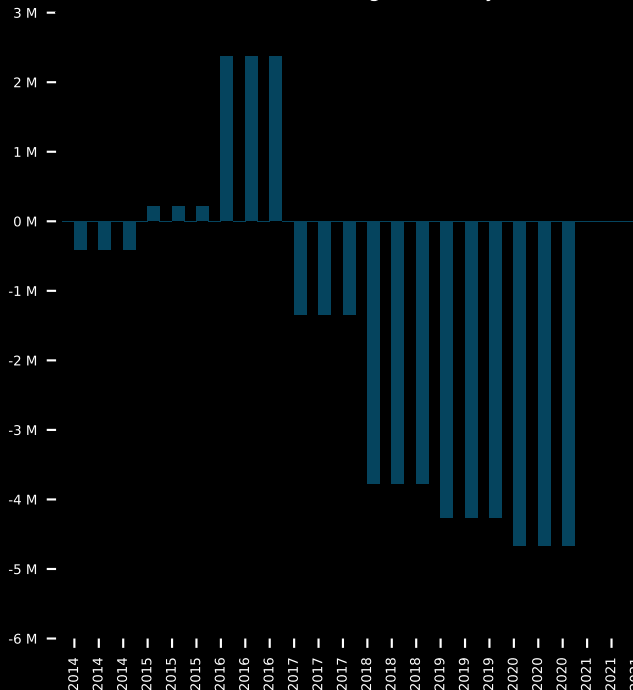
Sales, NI & Operating CF, annually



DXL / Communication Equipment / US / 2022-08-23

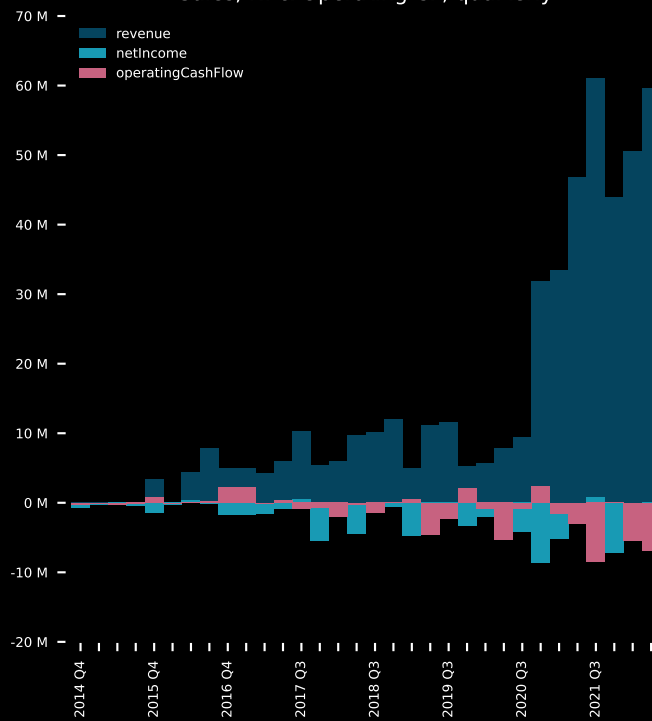


Owners Earnings, annually

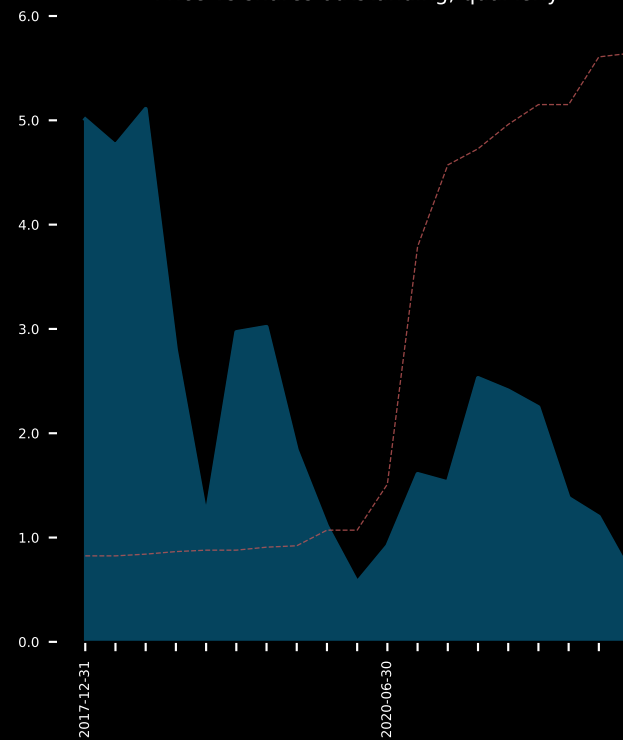


Boxlight Corporation develops, sells, and services interactive classroom technology products and solutions for the K-12 education market worldwide. The company provides interactive and non-interactive projectors, interactive flat panel displays, interactive touch projectors, touchboards, and MimioTeach that could turn any whiteboard interactive; and accessory document cameras, teacher pads for remote control, and assessment systems under the Mimio and Clevertouch brands. It also offers MimioStudio Interactive Instructional software that enables the creation, editing, and presentation of interactive instructional lessons and activities; MimioMobile, a software accessory for MimioStudio; Oktopus Instructional and Whiteboarding software that enables the creation, editing, and presentation of interactive instructional lessons and activities; Notes+, a software accessory for use with Oktopus software; and GameZones and MimioInteract, which are multi-student interactive gaming software. In addition, the company provides MimioClarity, a classroom audio solution; Mimio MyBot system that bridges the gap between learning about robotics in the classroom with the application of solutions

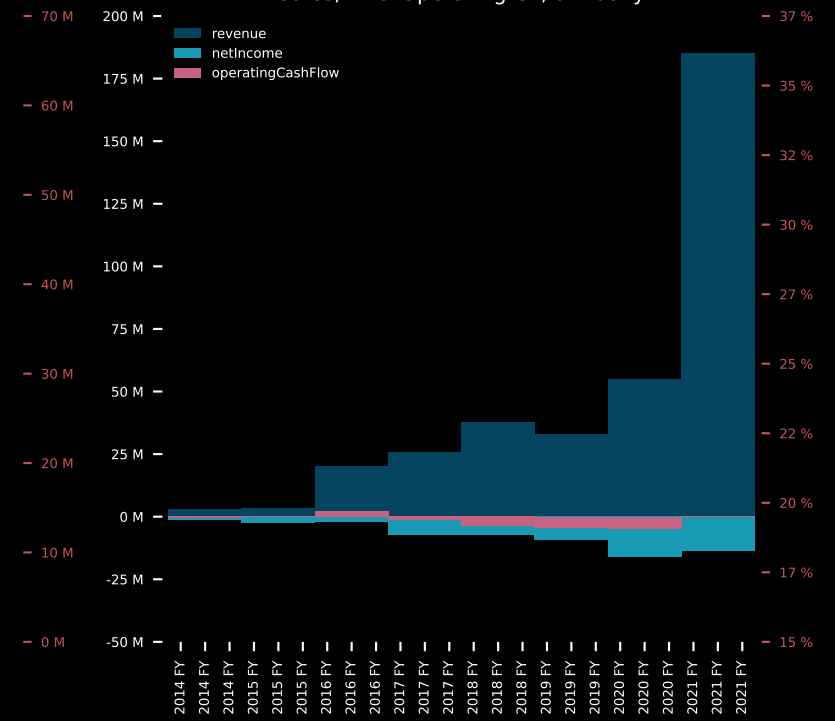
Sales, NI & Operating CF, quarterly



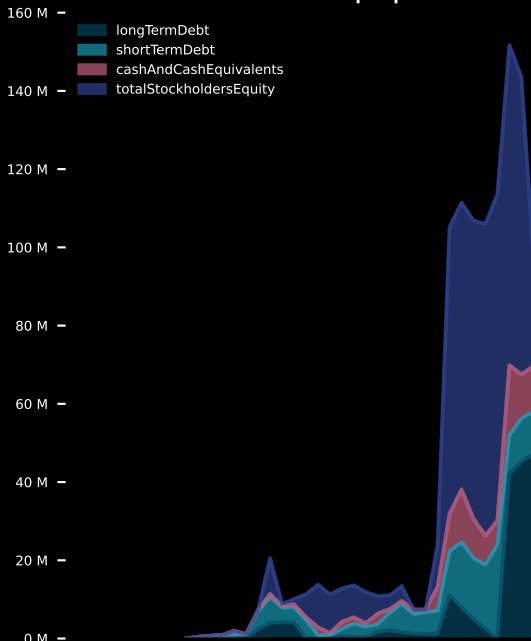
Price vs shares outstanding, quarterly



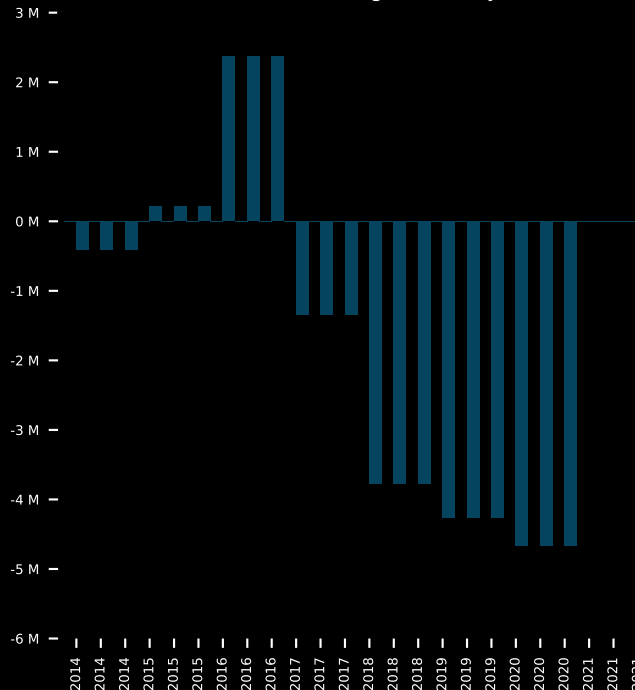
Sales, NI & Operating CF, annually



DXL / Communication Equipment / US / 2022-08-23

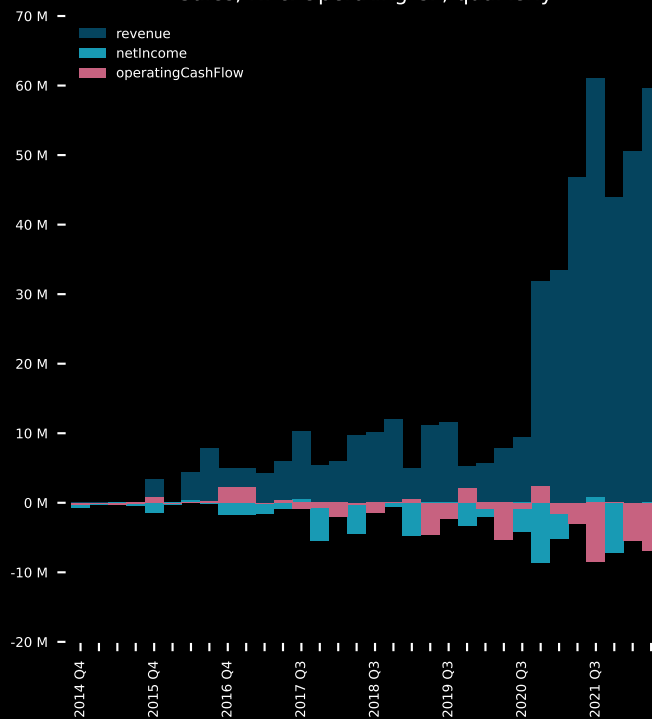


Owners Earnings, annually

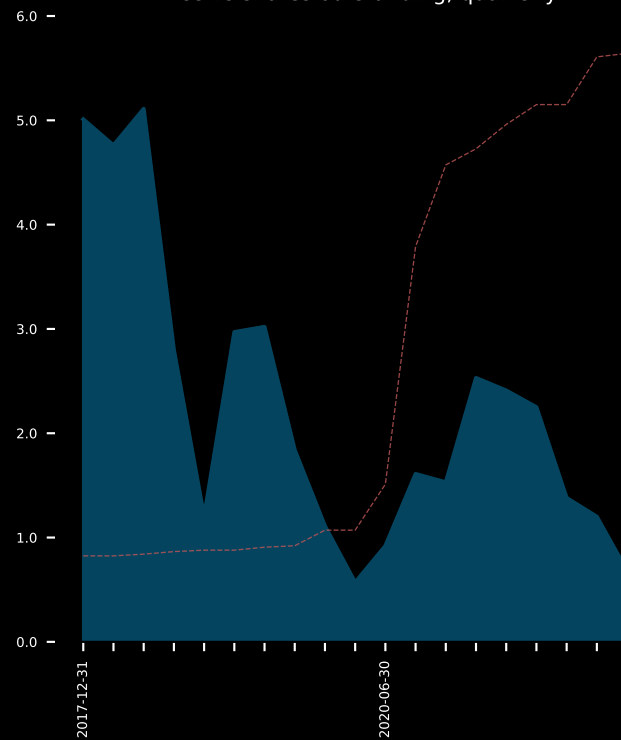


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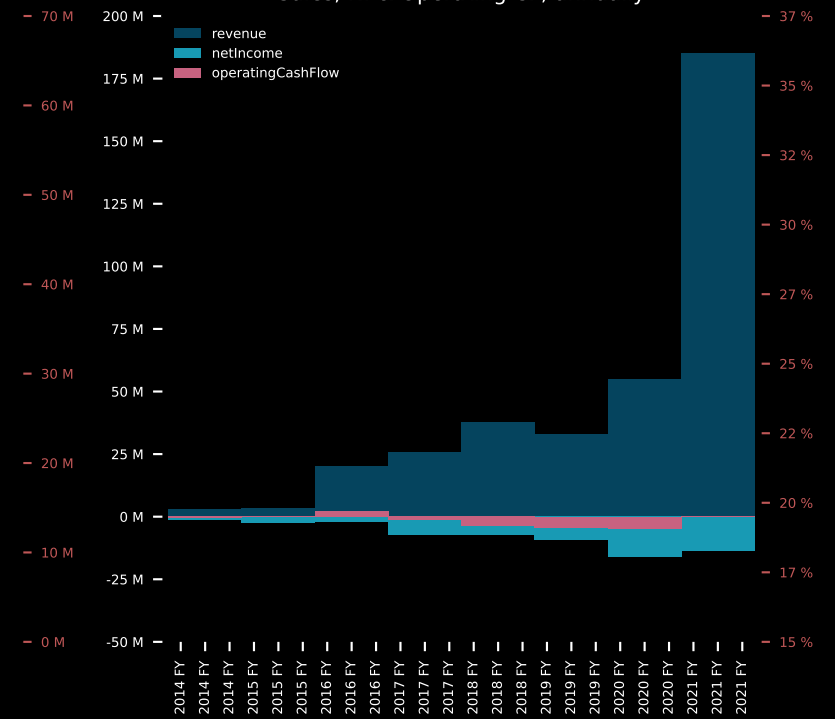
Sales, NI & Operating CF, quarterly



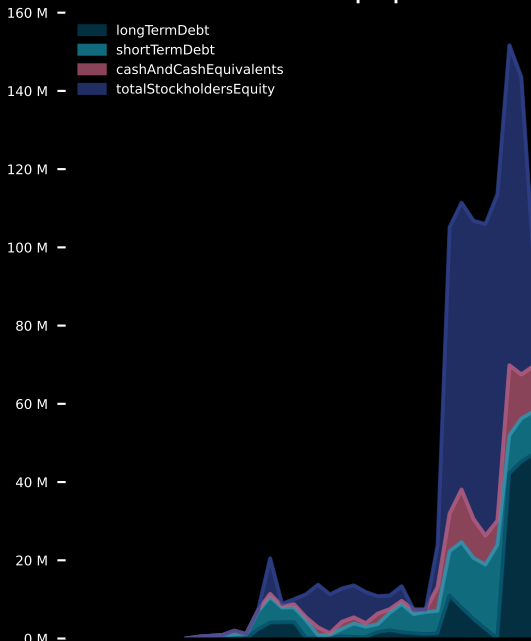
Price vs shares outstanding, quarterly



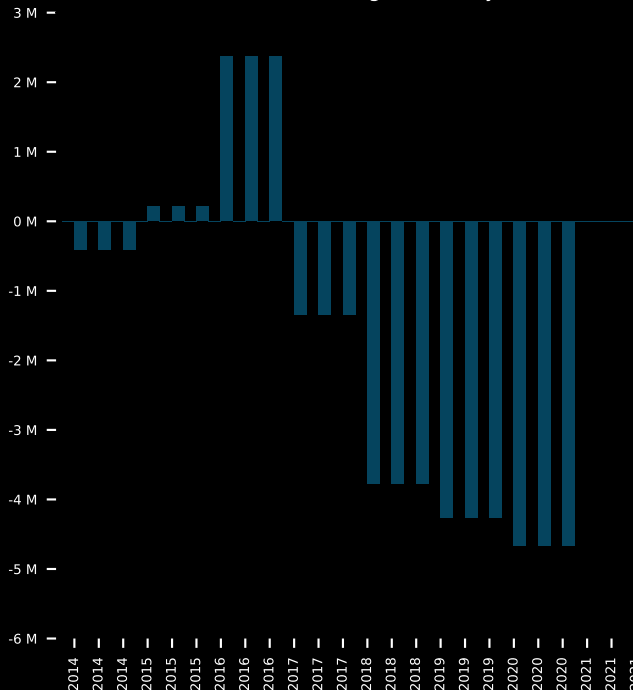
Sales, NI & Operating CF, annually



DXL / Communication Equipment / US / 2022-08-23

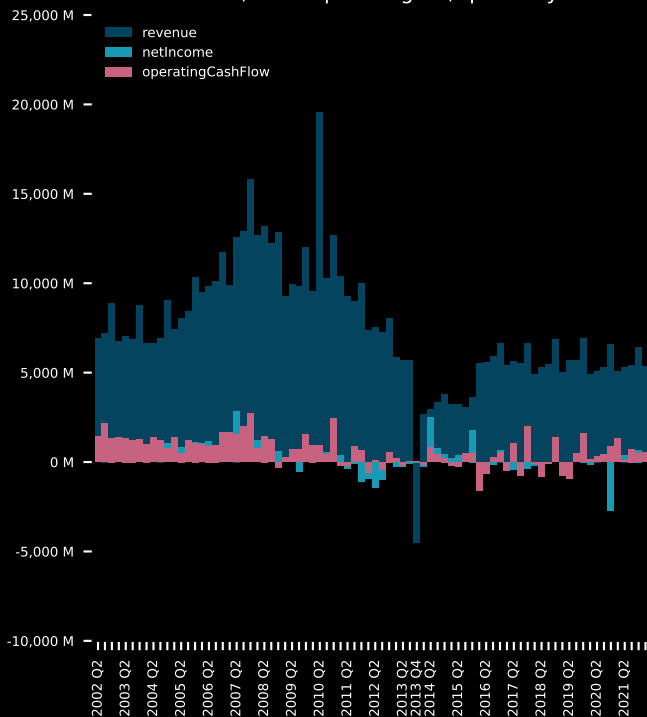


Owners Earnings, annually

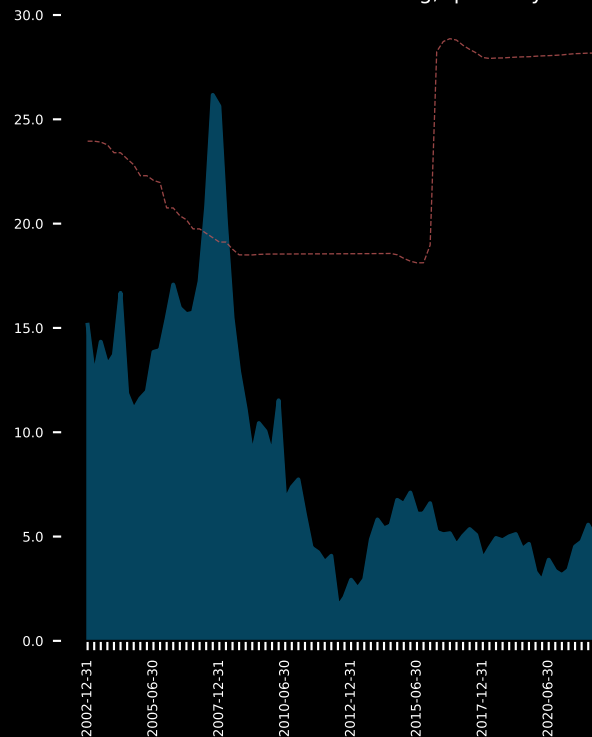


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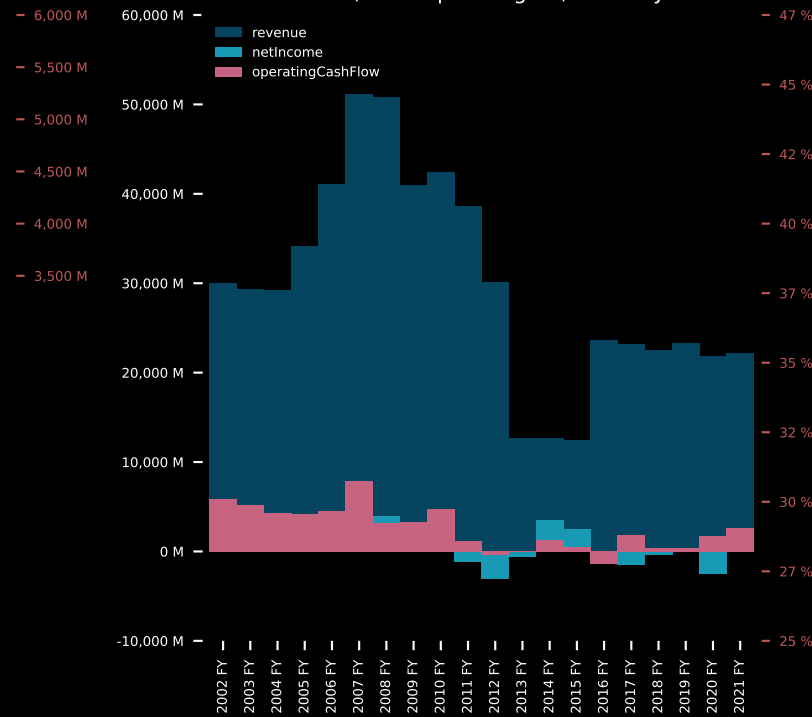
Sales, NI & Operating CF, quarterly



Price vs shares outstanding, quarterly



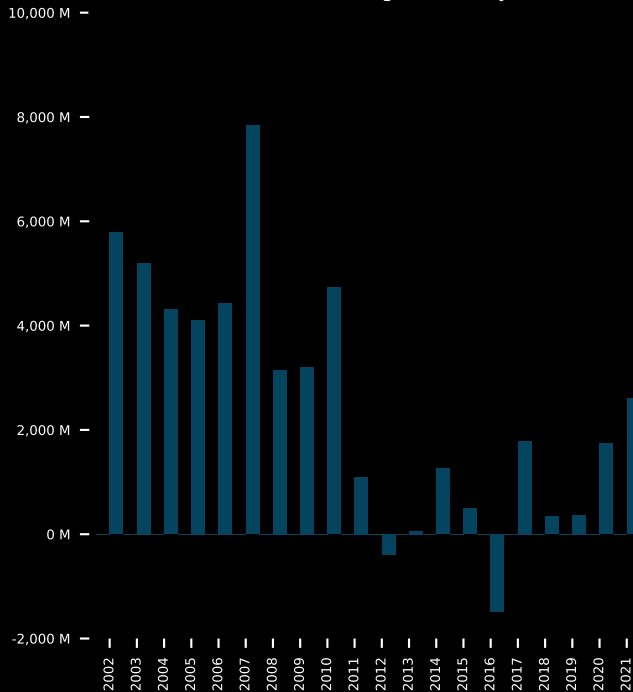
Sales, NI & Operating CF, annually



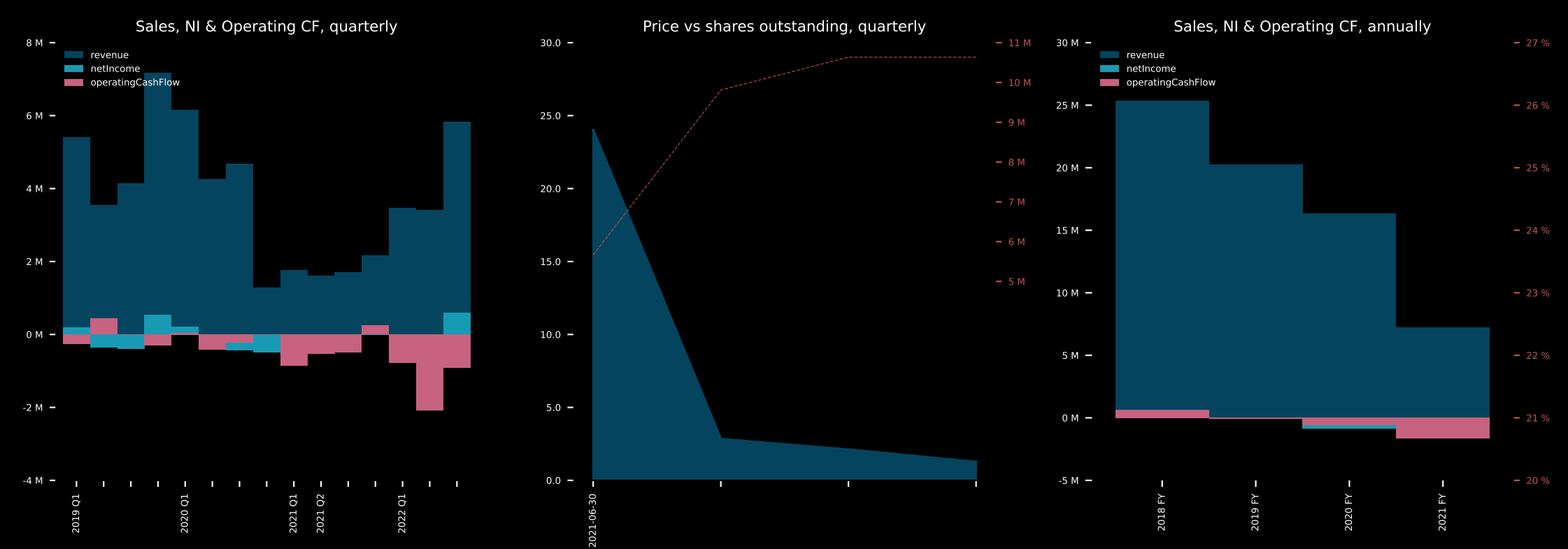
KLIA.HE / Communication Equipment / FI / 2022-08-23



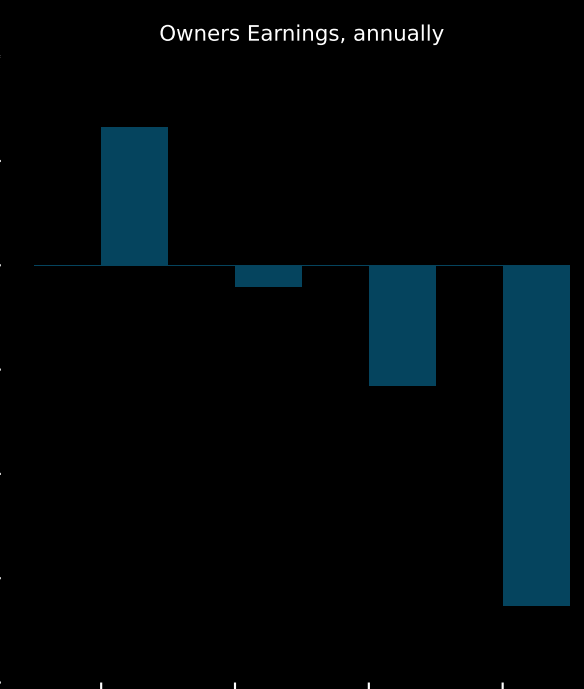
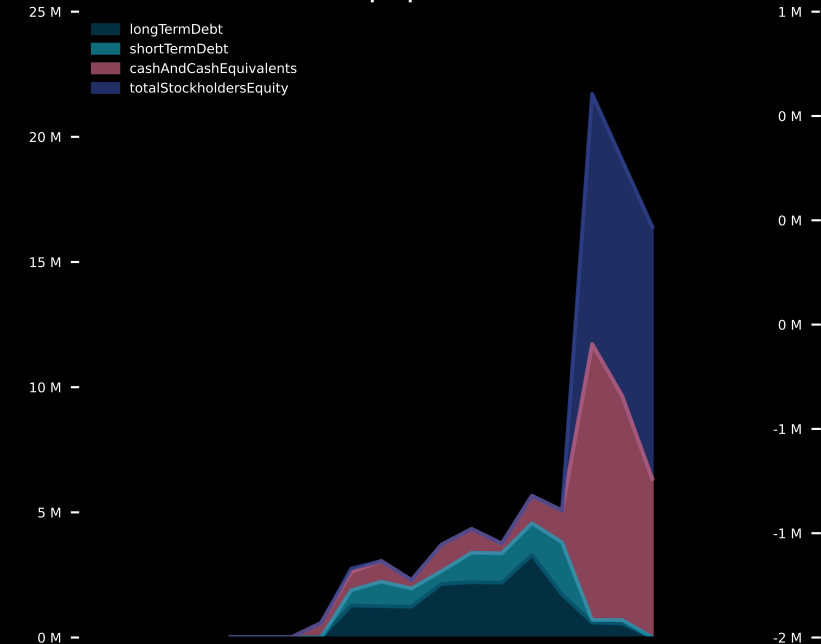
Owners Earnings, annually



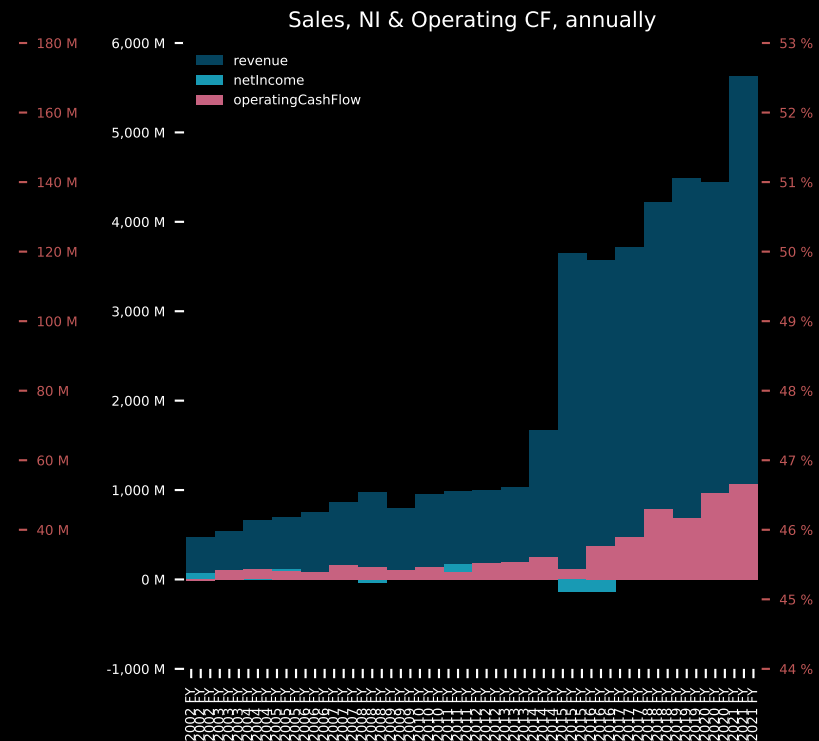
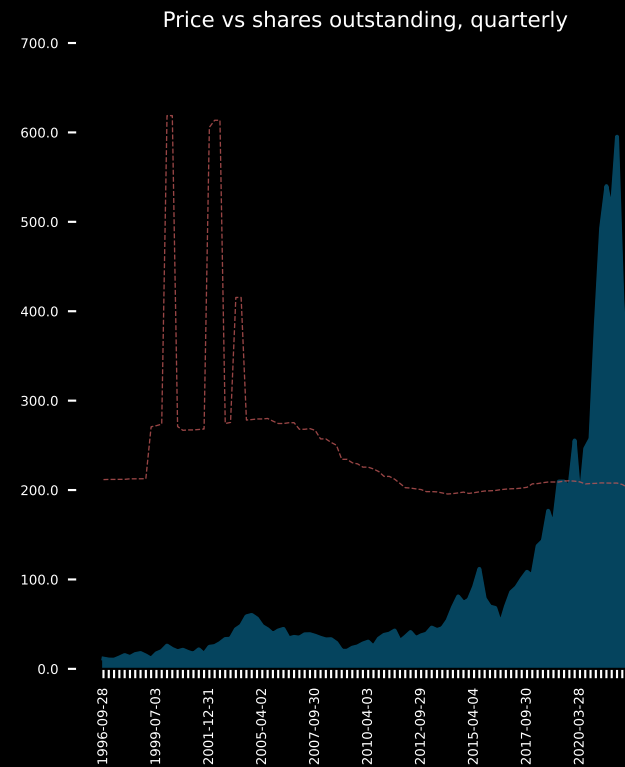
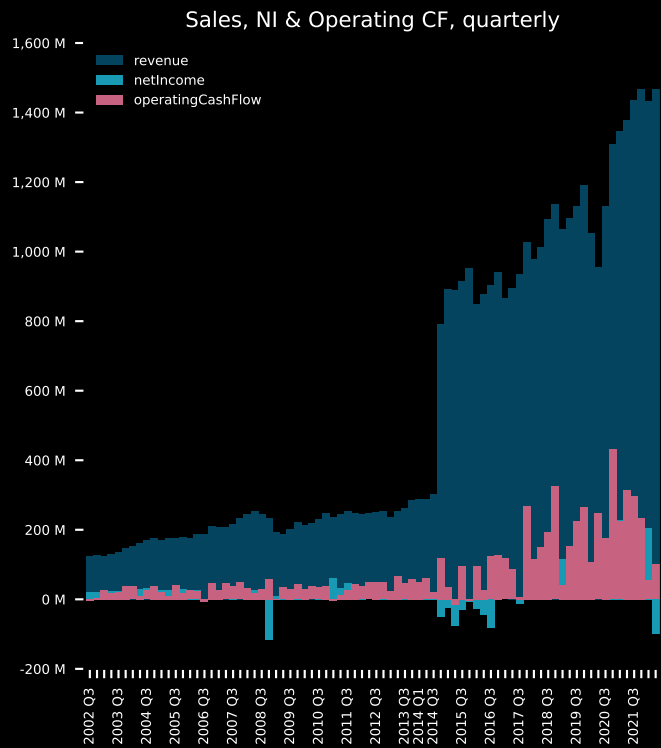
Nokia Oyj provides mobile, fixed, and cloud network solutions worldwide. The company operates through four segments: Mobile Networks, Network Infrastructure, Cloud and Network Services, and Nokia Technologies. It offers products and services for radio access networks covering technologies from 2G to 5G, and microwave radio links for transport networks. The company provides fixed networking solutions, such as fiber and copper-based access infrastructure, and cloud and virtualization services, as well as wi-fi portfolio, including mesh solutions and cloud-based controllers; IP routing solutions for IP aggregation, and edge and core applications for residential, business, mobile, and industrial services; a portfolio of optical networks comprising portfolio coherent optical transponders, optical transport network switchers, wavelength-division multiplexers, reconfigurable optical add-drop multiplexer solutions, and optical line systems for metro access and aggregation, data center interconnect, regional, and long-haul/ultra-long-haul applications; and submarine networks. In addition, it offers business



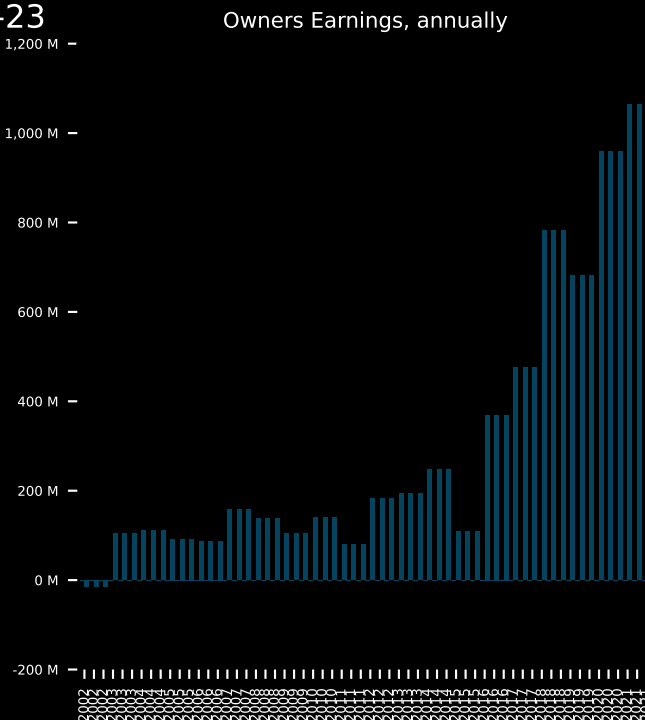
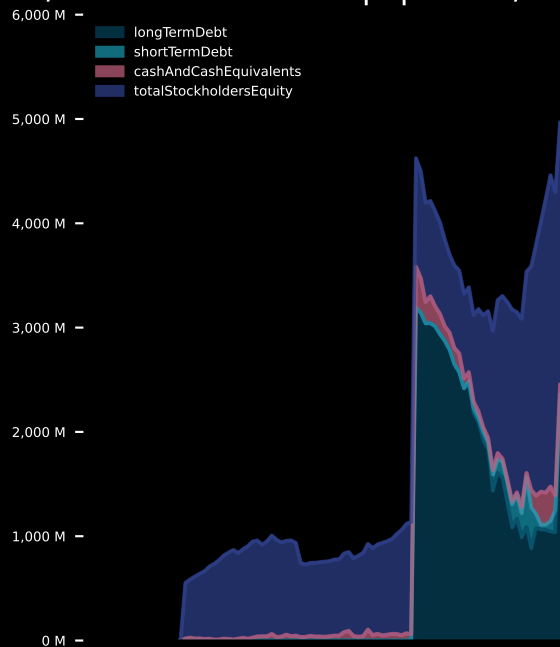
TQ / Communication Equipment / US / 2022-08-23



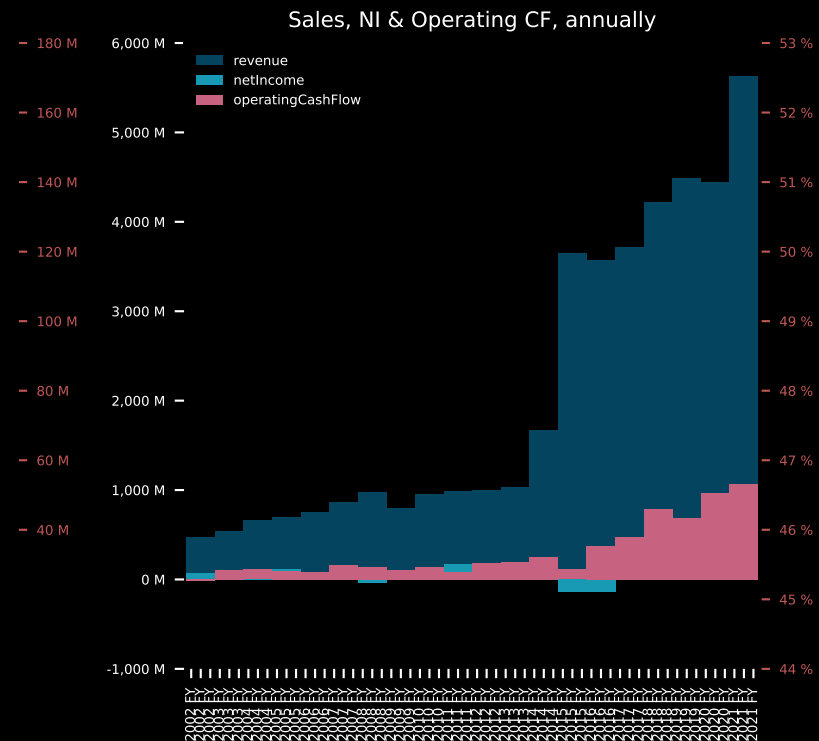
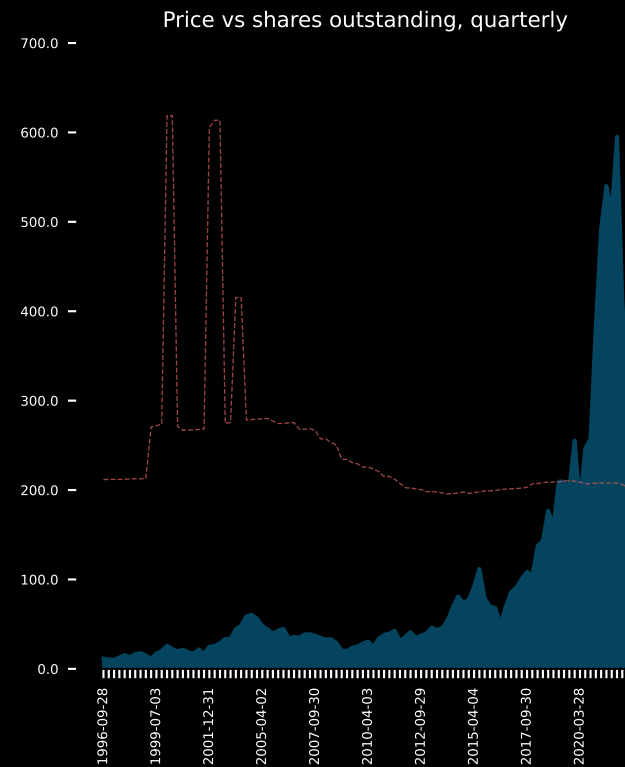
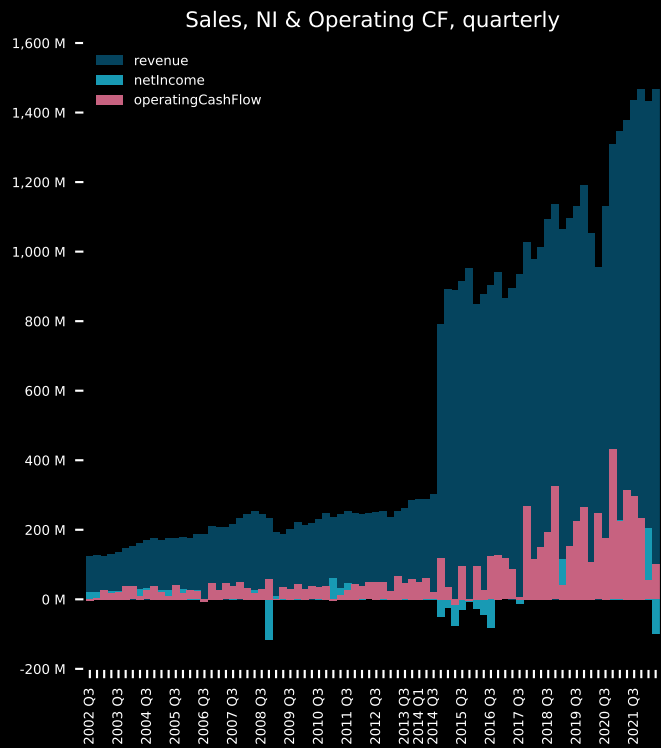
Moving iMAGE Technologies, Inc., a digital cinema company, designs, manufactures, integrates, installs, and distributes proprietary and custom designed equipment, and other off the shelf cinema products for cinema requirements in the United States and internationally. Its products and services focus on the integration needs associated with the building, modernization, and equipping of motion picture exhibition theatres. The company provides automation systems for digital cinema applications; proprietary rack mount pedestals; in-house designed and assembled suite of products to support boothless theatre designs and alternative auditorium configurations; and in-house designed and assembled lighting products and dimmers, as well as distributes digital cinema projectors and servers. It also offers premium sound systems and enclosures; demand controlled ventilation systems that automatically shuts down projector exhaust fans; and reclining seats and armrests, concession tables and trays, tablet arms, cup holders, and step and aisle lighting products for theaters and other public venues. In addition, the company provides software solutions, such as CinemaCC.



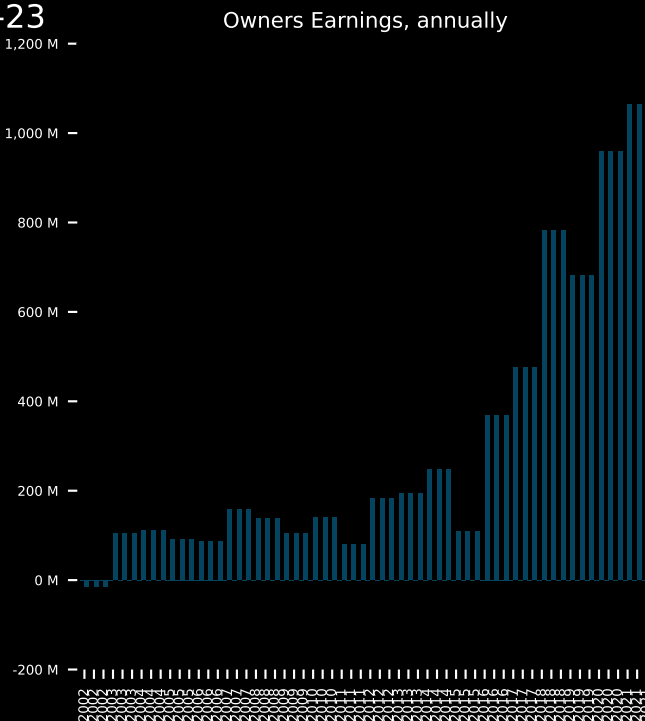
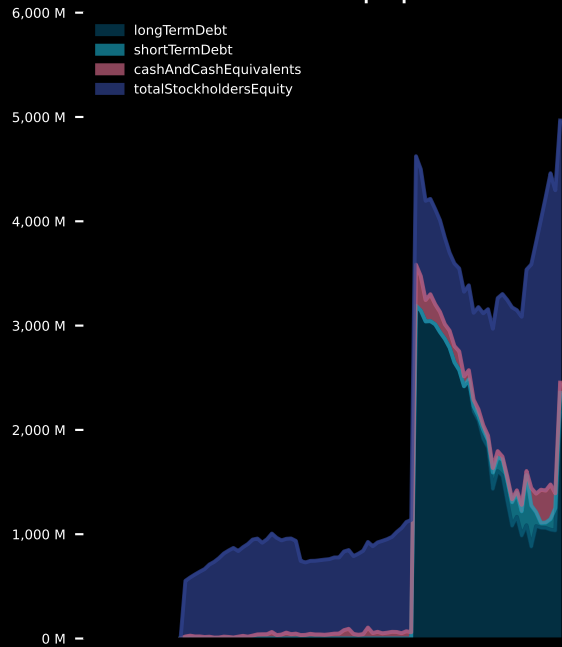
BRA / Communication Equipment / US / 2022-08-23



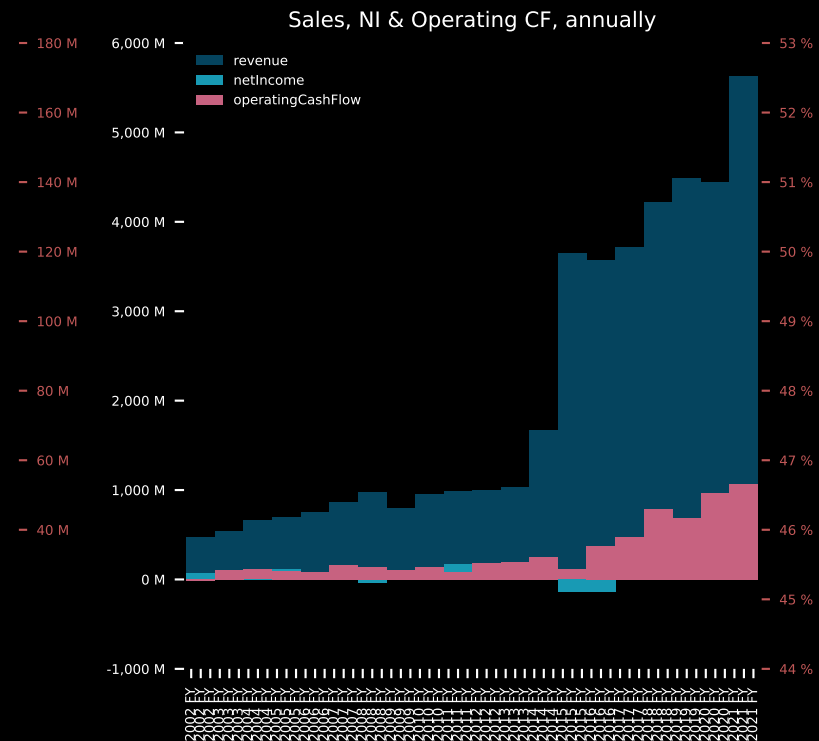
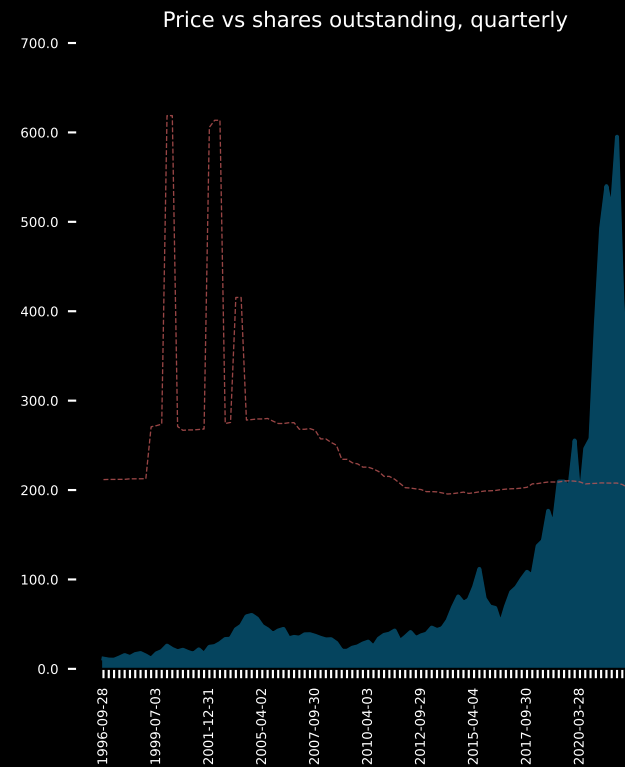
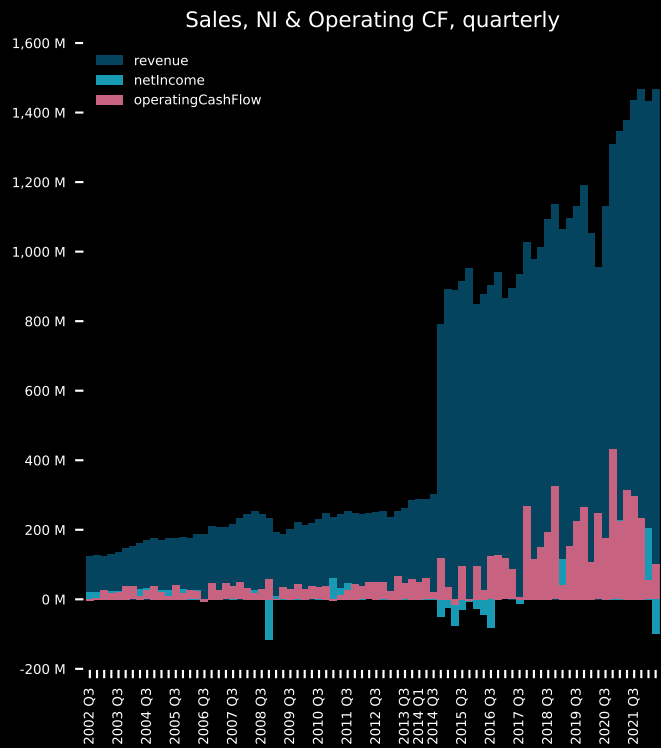
Zebra Technologies Corporation, together with its subsidiaries, provides enterprise asset intelligence solutions in the automatic identification and data capture solutions industry worldwide. It operates in two segments, Asset Intelligence & Tracking and Enterprise Visibility & Mobility. The company designs, manufactures, and sells printers, which produce labels, wristbands, tickets, receipts, and plastic cards; dye-sublimation thermal card printers, which produce images which are used for personal identification, access control, and financial transactions; RFID printers that encode data into passive RFID transponders; accessories and options for our printers, including vehicle mounts and battery chargers; stock and customized thermal labels, receipts, ribbons, plastic cards, and RFID tags for printers; and temperature-monitoring labels primarily used in vaccine distribution. It also provides various maintenance, technical support, repair, and managed and professional services; real-time location systems and services; and tags, sensors, excimers, middleware software, and application software; as well as physical inventory



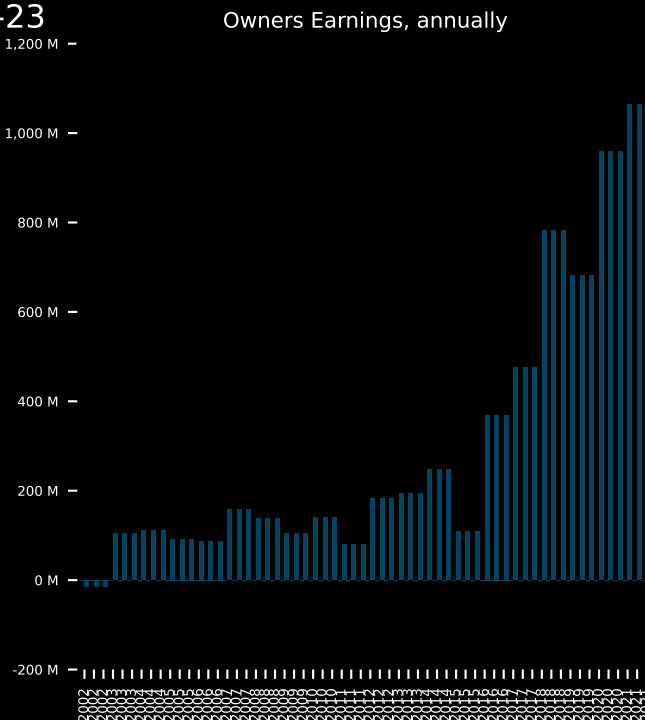
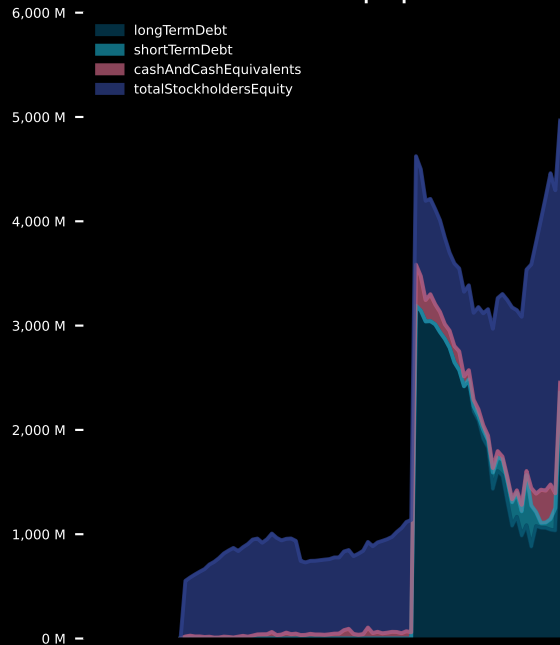
BRA / Communication Equipment / US / 2022-08-23



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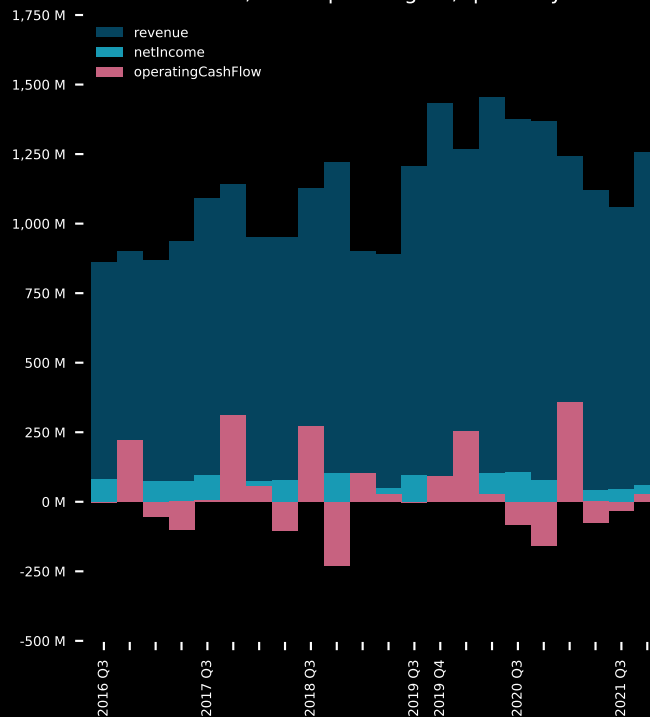


BRA / Communication Equipment / US / 2022-08-23

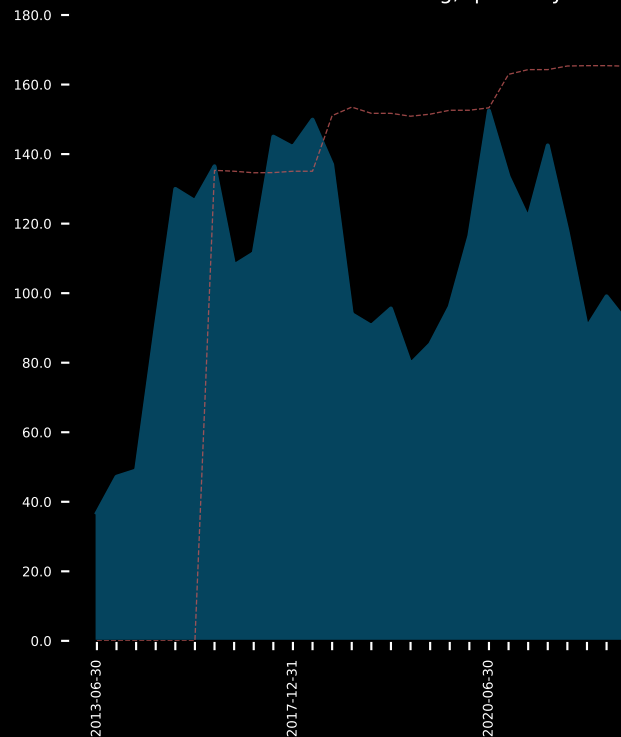


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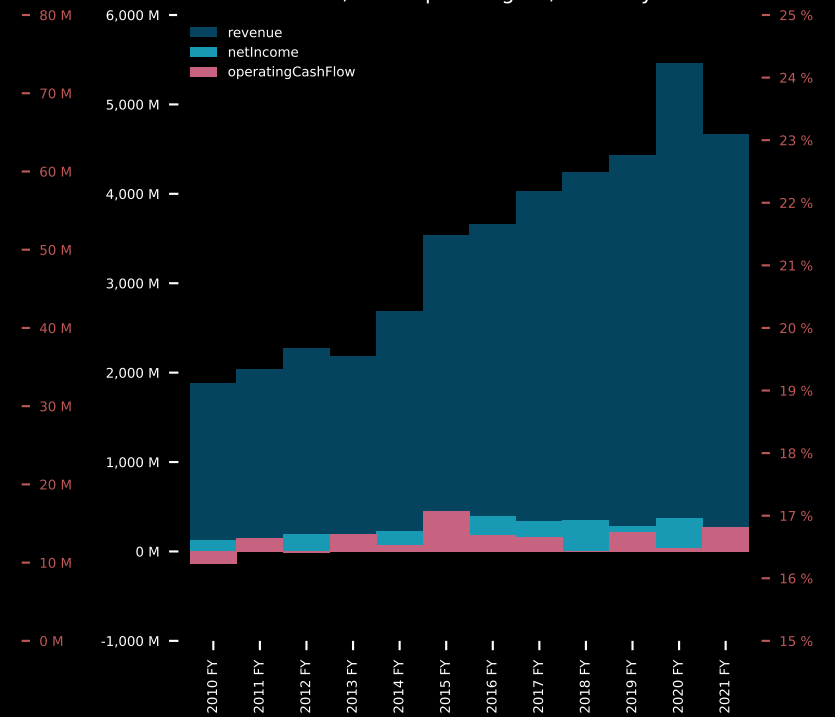
Sales, NI & Operating CF, quarterly



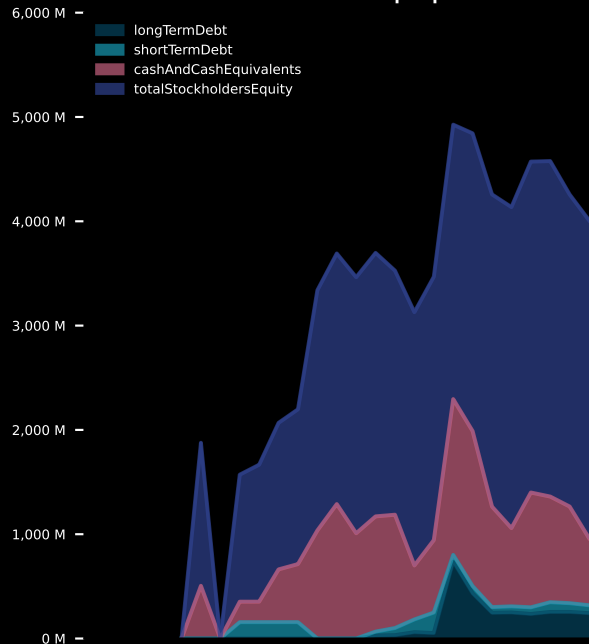
Price vs shares outstanding, quarterly



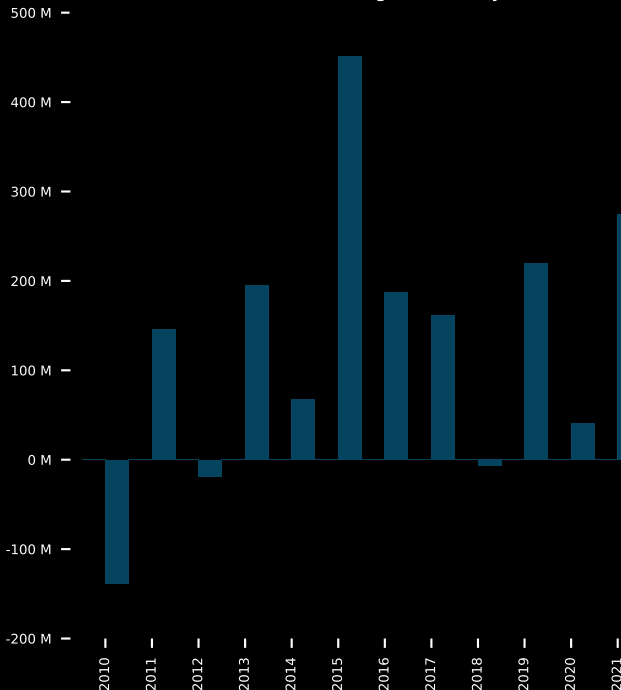
Sales, NI & Operating CF, annually



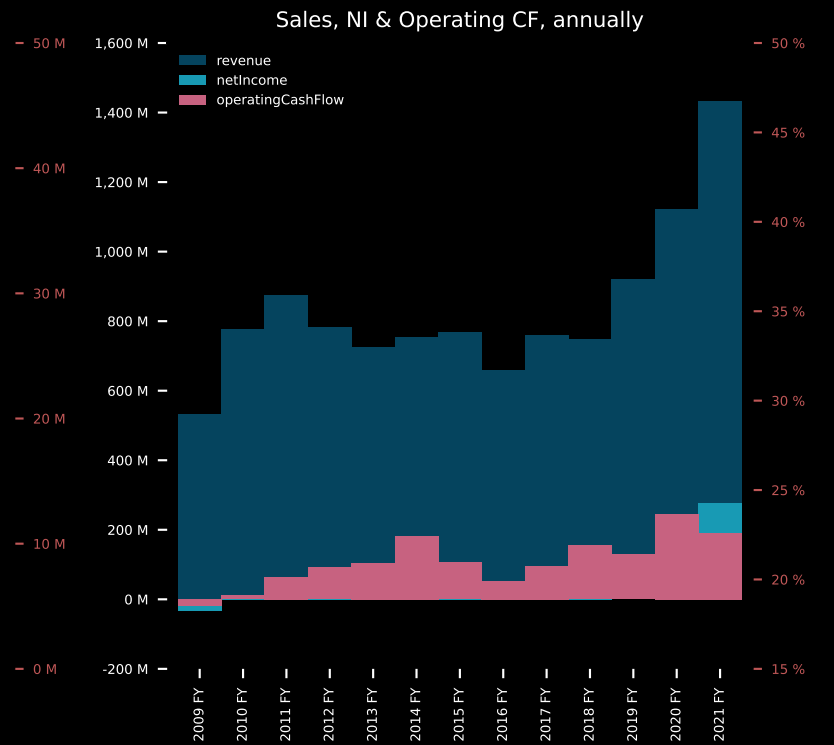
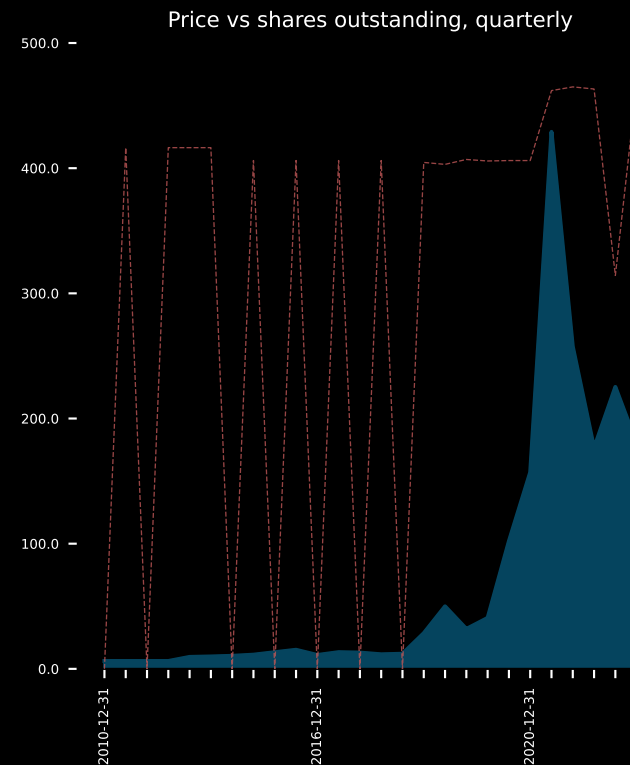
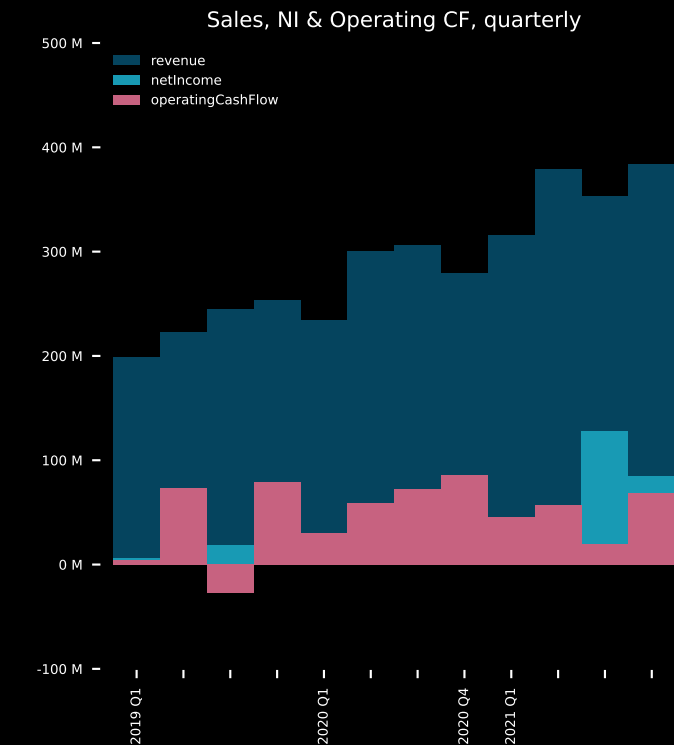
6.TW / Communication Equipment / US / 2022-08-23



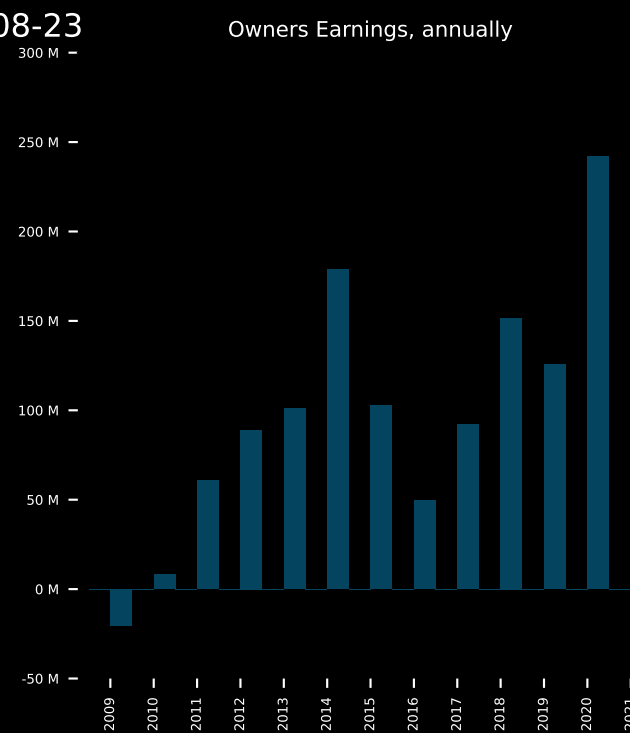
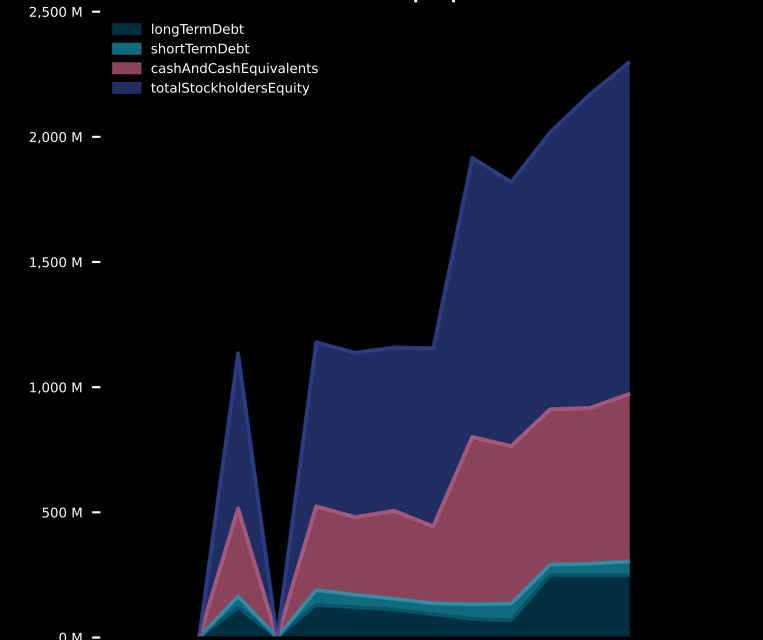
Owners Earnings, annually



CASwell Inc. engages in the design, engineering, manufacture, and sale of network computing and quality-proved platforms to system integrators, solution, and service providers worldwide. It offers network security and management products, such as 2U, 1U, fanless desktop, desktop, and other core network appliances; cloud computing and data center products, including data center switches and cloud storage servers; network attached storage products for large business, SMB, SOHO/home, and windows applications; and industrial control and automation products comprising industrial firewall and control systems. The company also provides edge/fog computing products, such as SD-WAN/uCPE/vCPE products, X86-based SDN switches, and NFV servers; proprietary, proprietary PoE, network, and POE network adapters; and proprietary acceleration, storage proprietary, and network acceleration modules. CASwell Inc. was founded in 2007 and is headquartered in New Taipei City, Taiwan.



8.TW / Communication Equipment / US / 2022-08-23



Auden Techno Corp. designs, manufactures, and sells wireless communications in Taiwan and internationally. The company offers marketing equipment, including RF communication testing, medical implant safety evaluation, acoustic testing, and other equipment; wireless power transmission and material characteristic measurement products; and cell exposure systems, electromagnetic and medical simulation software, vital sign simulators, and QMS tools. It also provides various antenna products, and antenna design and measurement services, as well as antenna solutions for mobile phone, notebook/tablet, IOV, IOT, industrial product, and smart home solutions. In addition, the company offers integration design services for 5G, mmWave band, vehicle, and IIoT, as well as other active and passive array antenna module and measurement services. In addition, the company engages in test and certification, and smart green energy businesses. Auden Techno Corp. was founded in 1981 and is headquartered in Taoyuan City, Taiwan.