Rebound Electronics

enquiries@reboundeu.com

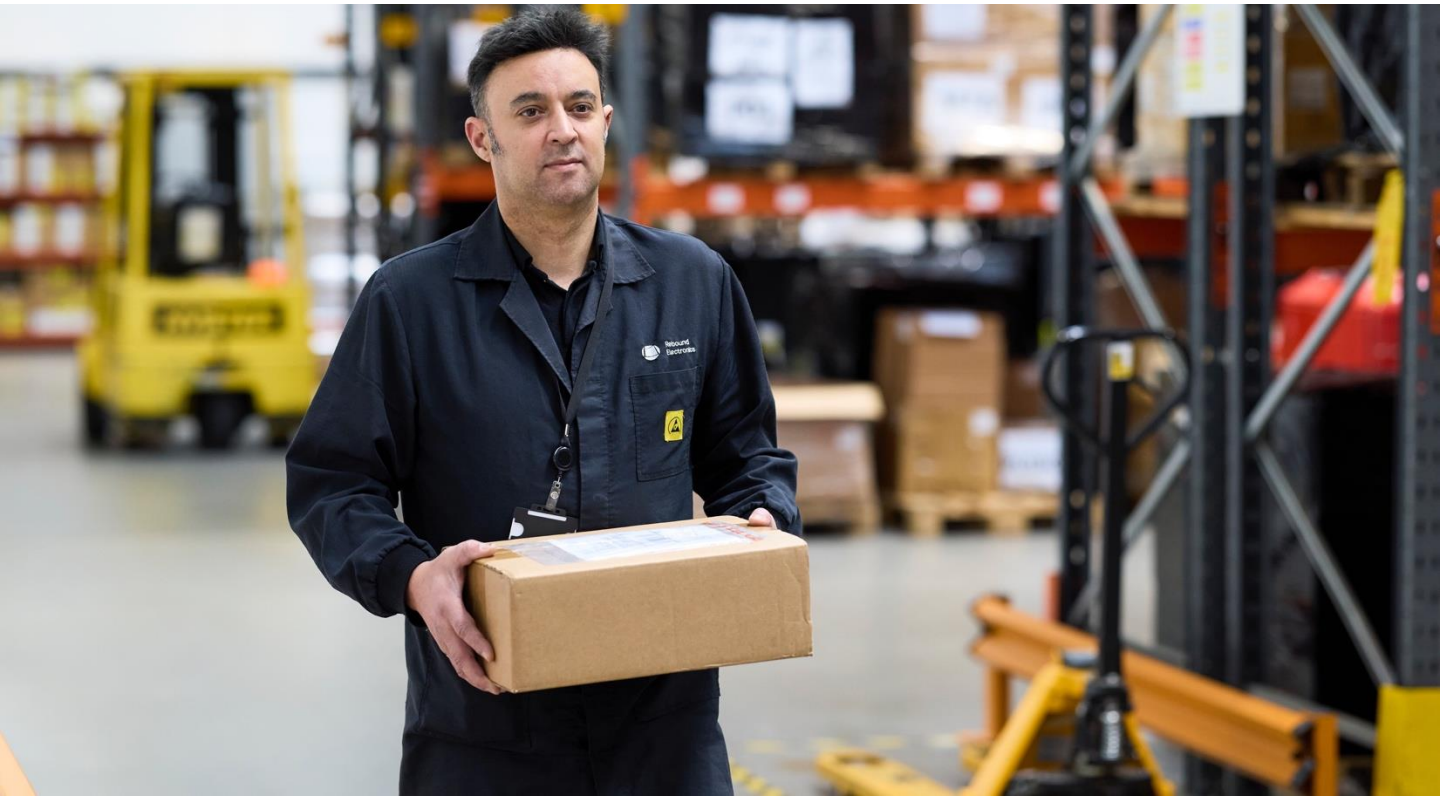
Market Insights Q4 2024

General Market Insight

Semiconductor Supply Chain Q4 2024

The semiconductor and electronics industry experienced rapid advances driven by quantum computing and innovative packaging technologies like 3D ICs and FOWLP, which enabled greater precision, miniaturisation, and efficiency across various applications. Industry 5.0 further transformed manufacturing by emphasising human-robot collaboration, creating sustainable and adaptive production environments.

Simultaneously, innovations in power electronics using wide-bandgap materials such as silicon carbide (SiC) and gallium nitride (GaN) enhanced energy efficiency in electric vehicles, renewable energy systems, and industrial automation. Additionally, the rising demand for AI, IoT, and 5G technologies accelerated the development of advanced, low-power semiconductors, reshaping the industry's landscape by Q4 2024.



2024 was a mixed year for the market, with artificial intelligence (AI) driving significant growth while other sectors lagged. AI demand, particularly for accelerator chips and high-bandwidth memory (HBM), fuelled revenue for companies like Micron, SK Hynix, Samsung, and Nvidia, while TSMC experienced a 30% boost in growth due to leading-edge manufacturing and advanced packaging.

However, the anticipated recovery in PC, mobile, and automotive markets did not materialize, as oversupply in the automotive sector created inventory challenges that were expected to persist into 2025. Despite these hurdles, the World Semiconductor Trade Statistics (WSTS) revised its 2024 growth forecast upward to 19%, driven primarily by AI-related demand, underscoring the sector's dominance in an otherwise uneven year.

General Market Insight

Semiconductor Industry Market: 2024

2024 Semiconductor Equipment Market: Growth Driven by Logic and Advanced Packaging Amidst Geopolitical Challenges

The semiconductor equipment market had been projected to achieve 8% to 10% growth in 2024, driven primarily by logic, foundry, and advanced packaging equipment, especially for high-bandwidth memory (HBM) production.

Strong sales to China, which accounted for 30% to 40% of US chipmaking equipment manufacturers' revenues , had been pivotal, though sanctions were expected to reduce China's share to 20%-30% in 2025.

Capital expenditures (capex) for AI were anticipated to surpass 2024's $250 billion, despite rising tariffs on non-U.S.-manufactured chips, which potentially increased costs for Nvidia, AMD, Apple, and Intel.

While Taiwan's TSMC had expected minimal impact from tariffs, laptop sales were forecast to grow 4.9% in 2025, driven by Windows 10 upgrades rather than AI-specific demand. Non-AI applications were expected to recover in late 2025, benefiting fabs and equipment makers, while automotive and industrial sectors projected flat or lower growth, aligning with WSTS's 11.2% growth forecast led by advanced logic and memory.

General Market Insight

Semiconductor Industry Market: 2024

Global Semiconductor Manufacturing Industry 2024 at a Glance

Sales Projections

The global semiconductor market reached approximately $588 billion in Q4 2024, reflecting a 13% increase from $520 billion in 2023. This growth was driven by recovering demand across various sectors, particularly in memory chips and consumer electronics.

Key drivers of the recovery is largely attributed to:

- Normalised Inventory Levels: Increased demand for memory chips as inventory stabilised.
- End-User Market Growth: Expansions in PCs, smartphones, automotive, and data centres.
- Technological Advancements: The ongoing adoption of AI technologies and 5G infrastructure requiring advanced semiconductor solutions.

Segment Performance

Memory Chips:

- After a significant downturn in 2023, the memory segment rebounded strongly, with sales returning to pre-2023 levels. This recovery was driven by heightened demand from data centres and consumer electronics.

Logic Chips:

- The logic chip market, encompassing processors and microcontrollers, experienced growth fuelled by advancements in AI, IoT, and automotive applications.

Automotive Semiconductors

- Electric car manufacturers are anticipating 2025 to be a pivotal year. This comes as China's sales growth decelerates, Europe introduces new emissions targets, and uncertainties loom over potential policy changes in the US under the incoming Trump administration.

Key Statistics:

- Global sales of fully electric vehicles and plug-in hybrids increased by 25.6% year-on-year to 1.9 million in December, despite a second consecutive month of slowing growth, according to Rho Motion data.
- In China, sales surged by 36.5% to 1.3 million vehicles in December, culminating in a total of 11 million for the entire year of 2024.
- In the United States and Canada, EV sales rose by 8.8% to 0.19 million in December.
- Europe saw a modest increase of 0.7% in EV sales, reaching 0.31 million compared to the same month in 2023.

Regional Insights

North America:

- The U.S. semiconductor market benefited from government initiatives to boost domestic manufacturing and reduce reliance on foreign supply chains. Investments in semiconductor fabs increased substantially.

General Market Insight

Asia-Pacific:

- Asia continued to dominate as the largest semiconductor market, with China, South Korea, and Taiwan leading in production. The region experienced continued investments in semiconductor manufacturing and R&D.

Europe:

- Europe focused on enhancing its semiconductor manufacturing capabilities through initiatives to increase local production and reduce dependency on imports, creating new opportunities for regional growth.

Semiconductor Industry Market: 2024

Regional Insights

Challenges and Considerations

Inventory Management:

- High inventory levels from 2023 continued to impact the market in early 2024. Companies needed to carefully manage their inventories to avoid excess supply and subsequent price erosion.

Supply Chain Disruptions:

- Persistent geopolitical tensions and supply chain disruptions posed significant risks to the semiconductor market. To mitigate these challenges, companies worked on diversifying their supply chains.

Technological Advancements:

- The rapid pace of technological advancements, particularly in AI and machine learning, required ongoing innovation in semiconductor design and manufacturing processes to stay competitive.

Future Outlook

Long-Term Growth:

- The semiconductor industry was projected to maintain its growth trajectory beyond Q4 2024, driven by the increasing integration of semiconductors in diverse applications, including consumer electronics, automotive, healthcare, and industrial automation.

Investment in R&D:

- Companies ramped up their investments in research and development to meet the evolving demands of the market and maintain a competitive edge.

Sustainability Initiatives:

- The industry saw a growing emphasis on sustainability, with companies exploring eco-friendly manufacturing processes and materials to minimise environmental impact.

Q4 2024 marked a pivotal period for the global semiconductor industry, characterised by recovery and growth across various segments. While challenges such as inventory management and supply chain disruptions persisted, the overall outlook remained positive. Technological advancements and rising demand across multiple sectors underscored the industry's potential. Companies that adapted to these dynamics and invested in innovation were well-positioned for long-term success in the evolving semiconductor landscape.

General Market Insight

Semiconductor Industry Stocks

Largest Companies in the Industry (Q4 2024)

Name	Last Price	1Y Target Est.	Market Weight	Market Cap	Day Change %	YTD Return
NVIDIA	130.2	151.52	57.25%	3.189T	-1.36%	162.92%
AVGO Broadcom	240.23	196.42	20.15%	1.122T	-3.91%	115.21%
AMD	125	184.72	3.64%	202.851B	-1.33%	-15.20%
QUALCOMM	157.92	208.28	3.15%	175.449B	0.02%	9.19%
Texas Instruments	188.12	206.39	3.08%	171.606B	-0.71%	10.36%
Micron	108.6	142.23	2.17%	120.985B	0.31%	27.26%
Analog Devices Inc.	213.82	255.27	1.91%	106.118B	-1.15%	7.69%
Marvell Technology	112.25	92.21	1.74%	97.13B	-10.04%	86.12%
Intel Corp.	20.43	25.23	1.58%	88.093B	-1.94%	-59.35%
NXP	219.02	265.95	1.00%	55.665B	0.39%	-4.64%

Source: Yahoo Finance, December 2024

General Market Insight

Latest Updates and News from Industry Leaders

AMD

- AMD shares fell 4% after Bank of America downgraded the stock, citing PC market headwinds, AI competition, and reduced market share projections.
- AMD has unveiled its Ryzen™ AI PRO 300 Series processors, featuring triple the AI performance of previous models, advanced security, and seamless integration of AI tools like real-time captions and language translation, setting a new standard for business productivity.

Analog Devices

- Analog Devices exceeded earnings estimates in Q4, driven by strong demand for automotive chips, despite a 10% revenue drop and ongoing macroeconomic uncertainty.
- Analog Devices is investing billions in a hybrid manufacturing model, leveraging internal and external capacity to boost utilisation rates, expand global operations, and ensure supply chain resilience while targeting strong growth by 2025.

Broadcom

- Broadcom's share price rose to $179.48 amid market volatility, driven by strong fundamentals, innovative semiconductor advancements, and anticipation for its December 12 earnings report, despite cautious optimism in the tech sector.
- Broadcom's new 3.5D XDSiP technology, developed with TSMC, promises faster AI processing by enhancing memory integration, positioning the company as a key player in the growing AI hardware market with projected AI revenue of $12 billion in 2024.

Diodes Inc.

- FMR LLC has acquired an additional 947,117 shares of Diodes Inc at $64.23 per share, increasing its stake to 12.49% and signaling strong confidence in the semiconductor company's market potential and financial performance despite recent stock declines.

Infineon

- Infineon, Littelfuse, and Toshiba launch advanced MOSFETs for efficient power solutions.
- Stellantis partners with Infineon to enhance EV power architectures using advanced semiconductors and intelligent power solutions.
- Infineon postpones the second phase of its Malaysian megafab and cuts investment by 10% amid a semiconductor downturn, while focusing on booming AI datacentre power markets and navigating sluggish automotive demand and inventory corrections.

Intel

- Intel has exited the discrete PC graphics card market, leaving Nvidia with 88% market share and AMD with 12%.
- Qualcomm is reportedly considering a potential takeover of Intel, though no official offer has been made, as Intel faces challenges with declining profits, manufacturing issues, and competitive pressures from rivals like AMD and Nvidia.
- Intel has launched its Gaudi 3 AI accelerator, offering slower performance than Nvidia's H100 but with a significant price advantage, aiming to compete through lower total cost of ownership (TCO) as AI demand transforms data centres.

Kyocera

- Kyocera will debut cutting-edge innovations in AI, autonomous driving, and wireless tech, including aerial displays and GaN components, at CES 2025 in Las Vegas from January 7–10.
- Kyocera EPA signed its first on-site solar PPA with Shigiya Machinery, installing a 1,080-kW PV system to generate 888,753 kWh annually, enabling renewable energy use with no upfront cost.
- Kyocera plans to sell a third of its KDDI stake, valued at over $3 billion, over five years to improve cash flow and refocus on core operations.

Lattice

- Lattice Semiconductor has authorized an additional $100 million stock repurchase program through December 2025, reflecting confidence in its financial strength and commitment to shareholder value.
- Lumotive and Lattice Semiconductor showcase chip-based 3D sensing at DevCon 2024, featuring advanced beam-steering and real-time adaptability for industrial and autonomous applications.

Murata

- Murata applies data science to optimize operations, improve products, and drive innovation.
- Murata expands IoT Wi-Fi 6 modules with Type 2FR/2FP and 2KL/2LL for smart homes and industrial IoT.
- Murata unveils HCR timing device with ±40ppm accuracy and -40°C to +125°C operation for advanced automotive systems.

Nexperia

- Nexperia pledges compliance with U.S. restrictions following its Chinese parent Wingtech's addition to the "entity list," ensuring no licensing impacts on its operations.
- Nexperia launches 16 new 80V and 100V power MOSFETs in compact CCPAK1212 packaging, featuring industry-leading power density, top/bottom cooling, and application-specific options for AI servers and industrial systems.

NVIDIA

- Nvidia hires 200 in China to boost AI-driven autonomous driving tech.
- Nvidia and Vietnam will collaborate to build AI research and data centres, while Nvidia acquires VinBrain to bolster its AI and digital infrastructure efforts.
- Nvidia's Q3 profits and sales soared, beating expectations with $35.08 billion revenue, driven by AI chip demand, though shares dipped slightly in after-hours trading.

NXP

- NXP's new i.MX 94 processors integrate multicore performance, AI capabilities, advanced security, and real-time networking to address industrial and automotive edge challenges. Sampling will begin in Q1 2025.
- NXP anticipates 8-12% growth in automotive and industrial IoT chip demand by 2027, driven by rising semiconductor content in cars, despite global economic uncertainties and U.S.-China export curbs.
- NXP and TSMC's Vanguard International are planning to expand their $7.8 billion Singapore chip plant, diversifying production amid rising US-China tech tensions.

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Onsemi

- onsemi will acquire Qorvo's SiC JFET technology for $115M to enhance energy-efficient power solutions for AI data centres and emerging markets like EVs and SSCBs.
- Onsemi's new silicon carbide power-integrated modules boost utility-scale solar inverter power to 350 kW, enhancing efficiency, reducing costs, and enabling significant energy savings.
- Onsemi CEO Hassane El-Khoury highlights the Treo platform for application-specific intelligent sensing, wide-bandgap materials like GaN and SiC, and sustainable innovation through robust production and academic collaboration.

Panasonic

- Panasonic launches its BalancedHome Elite ERV series, offering versatile, efficient ventilation with SmartFlow technology and flexible installation for single-family homes.
- Panasonic's Cardiff plant now runs entirely on renewable energy with hydrogen fuel cells, solar, battery storage and showcasing hydrogen innovation.

Rapidus

- Rapidus, collaborating with IBM, unveils groundbreaking 2nm chip tech as Japan boosts semiconductor security amid TSMC dominance concerns.
- Japan’s Rapidus to receive its first EUV machine in mid-December, marking a milestone in its journey to mass-produce 2nm chips by 2027, supported by ASML's new service centre in Hokkaido.

Renesas

- Renesas debuts RAA489118 charger and RAA489400 USB-C controller, delivering efficient, safe USB PD EPR solutions for power tools, vacuums, and industrial applications.
- Renesas and Nidec unveil the world's first "8-in-1" E-Axle system for EVs, integrating eight functions with a single MCU.
- Renesas and Intel launch three power management ICs to enhance energy efficiency in next-gen AI-powered laptops.

Samsung

- Samsung unveils the Galaxy Book5 Pro with Intel Lunar Lake CPU, Galaxy AI, Copilot+, and AI-powered features like OCR, Photo Remaster, and Note Assist.
- Samsung's inability to supply HBM3E to NVIDIA in 2024 highlights challenges as SK hynix solidifies its market dominance with advanced technologies and partnerships.

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ST Microelectronics

- STMicroelectronics unveils STM32N6 microcontrollers with AI acceleration, revolutionising edge computing for cost and power efficiency.
- Ampere and STMicroelectronics partner on SiC-based power modules and powerbox to enhance efficiency and range for next-gen electric vehicles.
- STMicroelectronics and Qualcomm unveil the ST67W611M1 IoT module, integrating Wi-Fi 6, Bluetooth 5.3, and Thread connectivity with STM32 microcontrollers for seamless wireless solutions.
- STMicroelectronics is focusing on expanding its presence in China's EV market and leveraging AI opportunities, including power driver contracts for AI infrastructure, to counter weak industrial demand and a lowered revenue forecast.

Toshiba

- Toshiba Global Commerce Solutions will showcase its innovative retail technologies, including modular self-service solutions and AI-powered experiences, at NRF 2025, empowering retailers to shape the future of shopping.
- Infineon, Littelfuse, and Toshiba unveil cutting-edge MOSFETs with advancements in efficiency, power handling, and protection, catering to high-performance applications like e-bikes, EVs, and backup systems.
- Airbus and Toshiba join forces to develop hydrogen-powered aircraft, leveraging Toshiba's superconducting motors for efficient, lightweight, and carbon-neutral aviation by 2050.

Texas Instruments

- LeddarTech and Texas Instruments collaborate to deliver integrated ADAS and autonomous driving solutions, combining LeddarVision's AI-driven sensor fusion with TI's TDA processors for scalable, cost-effective automotive innovations.
- Texas Instruments (NASDAQ: TXN) remains a leading analog chip maker with strong market potential, backed by robust growth in industrial, automotive, and IoT sectors.
- A recent investigation has revealed that Russian military weapons recovered in Ukraine contain US-made semiconductors from companies like Intel, Texas Instruments, and Analog Devices, despite sanctions.

TSMC

- ROHM and TSMC partner to develop and produce GaN power devices for electric vehicle applications, enhancing efficiency and sustainability.
- TSMC achieved a 60% yield in 2nm chip trial production and plans mass production in 2025, with Apple and Nvidia among early adopters.
- TSMC's November revenue surged 34%, driven by strong AI demand, with quarterly sales projected to grow 36.3%.

Vishay

- Vishay invests £51m in Newport Vishay, revitalising the UK's largest semiconductor plant and securing over 400 jobs.
- Vishay unveils the VOR1060M4, a 600V industrial-grade solid-state relay in a space-saving SOP-4 package, featuring a fast 0.3ms turn-on time and low 2nA leakage current, ideal for energy storage and industrial applications.
- Vishay Intertechnology reports Q3 2024 revenue of $735.4M, with a gross margin of 20.5%, highlighting steady performance amid prolonged inventory de-stocking and challenging macroeconomic conditions in Europe.

ANALOG		PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
Standard	Amplifiers & Comparators	↓	→	18+
	Analog Interface	↓	→	18+
	Power Management	↓	→	18+
	Converters	↓	→	18+
Standard Analog Total		↓	→	18+
Advanced		→	→	18+

MOS MICROLOGIC		PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
MPU		→	→	18+
MCU	8 Bit & Lower	→	→	12-18
	16 Bit	→	→	18+
	32 Bit & Higher	→	→	12-18
MCU Total		→	→	18+
Automotive MCU		→	→	28+
DSP		→	→	28+

PROGRAMMABLE LOGIC	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
	→	→	18+

STANDARD LOGIC	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
Timing Products	→	→	28+
Interface	→	→	28+
Connectivity	→	→	28+
Standard Logic	↓	→	12-18

POWER	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
FET	↓	→	18+
IGBT	→	→	18+
Rectifier	→	→	12-18
Other Power	→	→	12-18

MEMORY	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
Flash – NOR	↑	→	**18+**
Flash – NAND	↑	→	**12-18**
eMMC	↑	→	**12-18**
EEPROM	→	→	**4-10**
DRAM	↓	→	**12-18**
SRAM	→	→	**4-10**
Solid State Drives	→	→	**18+**

SENSORS	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
	→	→	18

OPTO	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
LEDs (Low Power)	→	→	**4-10**
LEDs (Mid Power)	→	→	**4-10**
LEDs (High Power)	→	→	**12-18**
Couplers	→	→	**18+**
Fibre-Optic	→	→	**18+**
Infrared	→	→	**18+**
Other Opto	→	→	**18+**

DISCRETE	PRICING TREND	LEAD TIME TREND	LEAD TIME (WEEKS)
Small Signal	↓	→	**12-18**
RF	→	→	**12-18**

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↔	Stable
↗	Increasing
↙	Decreasing
SMA	Selective Market Adjustment
EOL	End-of-Life

Click on a category below:

Analog
High - End
Battery
Interconnect
Connectivity
Opto / Lighting
Discrete
Memory
Electromechanical
Passives

Analog

MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
Analog devices	Sensors	18-22	↔	↔	
ams	Sensors	10-26	↔	SMA	
Bosch Sensortec	Sensors	8-14	↔	↔	
Diodes Incorporated	Multi- Source Analog/Power	12-20	↔	↔	
	Switching Regulators	12-20	↔	↔	
FTDI Chip	Interface	12-16	↔	↔	
Infineon	Sensors	6-28	↔	↔	
	Switching Regulators	16-28	↔	↔	
	Analog and Power for Automotive (CAN/LIN/Smart FET)	22-42	↔	↔	
Maxlinear	Interface	10-14	↔	↔	
Melexis	Sensors	14-62	↔	SMA	
Microchip	Signal Chain (Amplifiers and Data Converters)	6-12	↔	↔	
	Timing	10-14	↔	↔	
	Switching Regulators	10-22	↔	↔	
Monolithic Power Systems	Switching Regulators	14-26	↔	↔	
NXP	Sensors	18-54	↔	↔	
	Interface	18-22	↔	↔	
	Analog and Power for Automotive (CAN/LIN/Smart FET)	14-22	↔	↔	

MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
Onsemi	Sensors	20-54	↔	SMA	
	Signal Chain (Amplifiers and Data Converters)	12-22	↔	↔	
	Timing	20-26	↗	↔	
	Multi- Source Analog/Power	12-22	↔	↔	
	Switching Regulators	12-22	↔	↔	
Panasonic	Sensors	18-28	↗	↔	
Pericom Saronix-eCera	Timing	16-26	↙	↔	
Power Integrations	Switching Regulators	18-20	↔	↔	
Renesas	Signal Chain (Amplifiers and Data Converters)	14-22	↔	↔	
	Timing	14-26	↔	↔	
	Interface	14-22	↔	↔	
	Switching Regulators	16-26	↙	↔	
ROHM	Sensors	26-54	↔	↗	
	Switching Regulators	14-28	↔	↔	
ST Microelectronics	Sensors	22-36	↔	↔	
	Signal Chain (Amplifiers and Data Converters)	12-22	↔	↔	
	Multi- Source Analog/Power	12-22	↔	↔	
	Switching Regulators	12-22	↔	↔	
	Analog and Power for Automotive (CAN/LIN/Smart FET)	22-32	↔	↔	
TE Sensor Solutions	Sensors	18-54	↔	SMA	
Texas Instruments	Regulators	18-22	↔	↔	
	Sensors	18-22	↔	↔	
	Interface	18-22	↔	↔	
Vishay	Sensors	26-54	↔	↔	

Batteries

MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
Alium Batteries	Lithium Ion	22-24	↔	↔	
Energizer	Alkaline	12-14	↔	↔	
	Lithium Metal	16-18	↔	↔	
	Silver Oxide	10-12	↔	↔	
GP Batteries	Alkaline	16-18	↔	↗	
	Lithium Metal	20-22	↔	↗	
	Lithium Ion	18-20	↔	↗	
	Nickle Metal Hydride	12-14	↔	↔	
	Lead Acid	10-12	↔	↔	
	Carbon Zinc	10-12	↔	↔	
Panasonic	Alkaline	12-14	↔	↔	
	Lithium Metal	16-18	↙	↔	
	Nickle Metal Hydride	10-12	↔	↔	
	Carbon Zinc	10-12	↔	↔	
Rayovac	Alkaline	10-12	↔	↔	
	Lithium Metal	12-14	↔	↔	
	Nickle Metal Hydride	10-12	↔	↗	
	Carbon Zinc	10-12	↔	↔	
Renata Batteries	Lithium Metal	16-18	↔	↔	
	Lithium Ion	22-24	↔	↔	
	Nickle Metal Hydride	12-14	↔	↗	
	Silver Oxide	10-12	↔	↔	
	Carbon Zinc	10-12	↔	↔	

Batteries

MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
Tadiran Batteries	Lithium Metal	14-16	↔	↔	
	Alkaline	12-14	↔	↔	
	Lithium Metal	20-26	↔	↔	
VARTA	Lithium Ion	34-40	↔	↔	
	Nickle Metal Hydride	12-14	↔	↗	

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Connectivity

MANUFACTURER	PRODUCT	LEAD TIME (WEEKS)	TREND	PRICING	COMMENTS
AMS	RFID	22	↗	↔	
CEL	802.15.4/Zigbee Modules	28-34	↔	↔	
	Small Signal, Schottky Diodes, PIN Diodes, Bipolar Transistors, FETs/PHEMTs, Amplifiers, Mixers & Modulators, VCOs, SS Bipolar Transistors, Wideband Transistors	32	↔	↔	
Infineon + Cypress	Bluetooth Modules	18-26	↔	↔	Cypress is now Infineon
	Small Signal, Schottky Diodes, PIN Diodes, Bipolar Transistors, FETs/PHEMTs, Amplifiers, Mixers and Modulators, VCOs, SS Bipolar Transistors, Wideband Transistors	14-18	↔	↔	
Fibocom	Cellular Modules	18-22	↔	↔	
Kyocera AVX	Antennas	10-12	↔	↔	
Laird Connectivity	Wi-Fi Modules	18-38	↔	↔	
	Antennas	14-18	↗	↔	
	LoRa	~32-54	↗	↔	
Linx Technologies	Cellular Modules	8-12	↔	↔	
	Antennas	12-14	↗	↔	
	Transceivers/Receivers	12-14	↗	↔	
Melexis	Transceivers/Receivers	18	↔	↔	
	RFID	16-18	↔	↔	
Microchip	Wi-Fi Modules	14-22	↔	↔	
	Bluetooth Modules	14-22	↔	↔	
	Transceivers/Receivers	14-22	↔	↔	
	LoRa	18	↔	↔	
MultiTech	Cellular Modules	18-22	↔	↔	
	LoRa	~22	↔	↔	

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Murata	Wi-Fi Modules	28-52	↔	↔	
	Bluetooth Modules	28-52	↔	↔	
	Small Signal, Schottky Diodes, PIN Diodes, Bipolar Transistors, FETs/PHEMTs, Amplifiers, Mixers and Modulators, VCOs, SS Bipolar Transistors, Wideband Transistors	14-22	↔	↔	
	LoRa	32-42	↔	↔	
Nearson	Antennas	10-12	↔	↔	
NXP	Multi-Protocol/Chip Solutions	28-38	↔	↗	
	Transceivers/Receivers	26	↔	↔	
	RFID	16	↔	↔	Parts on allocation
	High Power IC's	14-18	↔	↔	
	Small Signal, Schottky Diodes, PIN Diodes, Bipolar Transistors, FETs/PHEMTs, Amplifiers, Mixers and Modulators, VCOs, SS Bipolar Transistors, Wideband Transistors	14-18	↔	↔	
Onsemi	Bluetooth Modules	18-32	↔	↔	
Panasonic	Bluetooth Modules	18-28	↔	↔	
	RFID	16-18	↔	↔	
Pulse Electronics	Antennas	10-12	↔	↔	
Semtech	Transceivers/Receivers	12-14	↗	↔	
	LoRa	10-18	↔	↔	
Sierra Wireless	Multi-Protocol/Chip Solutions	42-48	↔	↔	
	Cellular Modules	10-12	↔	↔	Intel based radios are at 52 weeks
Silex Technology	Wi-Fi Modules	22-42	↔	↔	
ST Microelectronics	Bluetooth Modules	12-14	↔	↔	
	Transceivers/Receivers	14	↔	↔	Capacity constraints on Spirit Radio
	RFID	22	↔	↔	ST25R39xx on allocation
	GPS	14	↔	↔	
	High Power IC's	22-32	↔	↔	
	LoRa	12-14	↔	↔	

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MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Synapse Wireless	802.15.4/Zigbee Modules	20-22	↔	↔	
Taoglas	Antennas	22-24	↗	↔	
TDK	Small Signal, Schottky Diodes, PIN Diodes, Bipolar Transistors, FETs/PHEMTs, Amplifiers, Mixers and Modulators, VCOs, SS Bipolar Transistors, Wideband Transistors	14-22	↔	↔	
TE Connectivity	Cellular Modules		↔	↔	
	Antennas		↗	↔	
	Transceivers/Receivers		↔	↔	
Thales	Cellular Modules	14-22	↔	↔	
U-Blox	Bluetooth Modules	14-28	↔	↙	
	Cellular Modules	14-28	↔	↙	Parts are on allocation, lead time is 26+
	GPS	14-28	↔	↔	Parts are on allocation and increasing in cost
	WiFi Modules	14-28	↔	↔	

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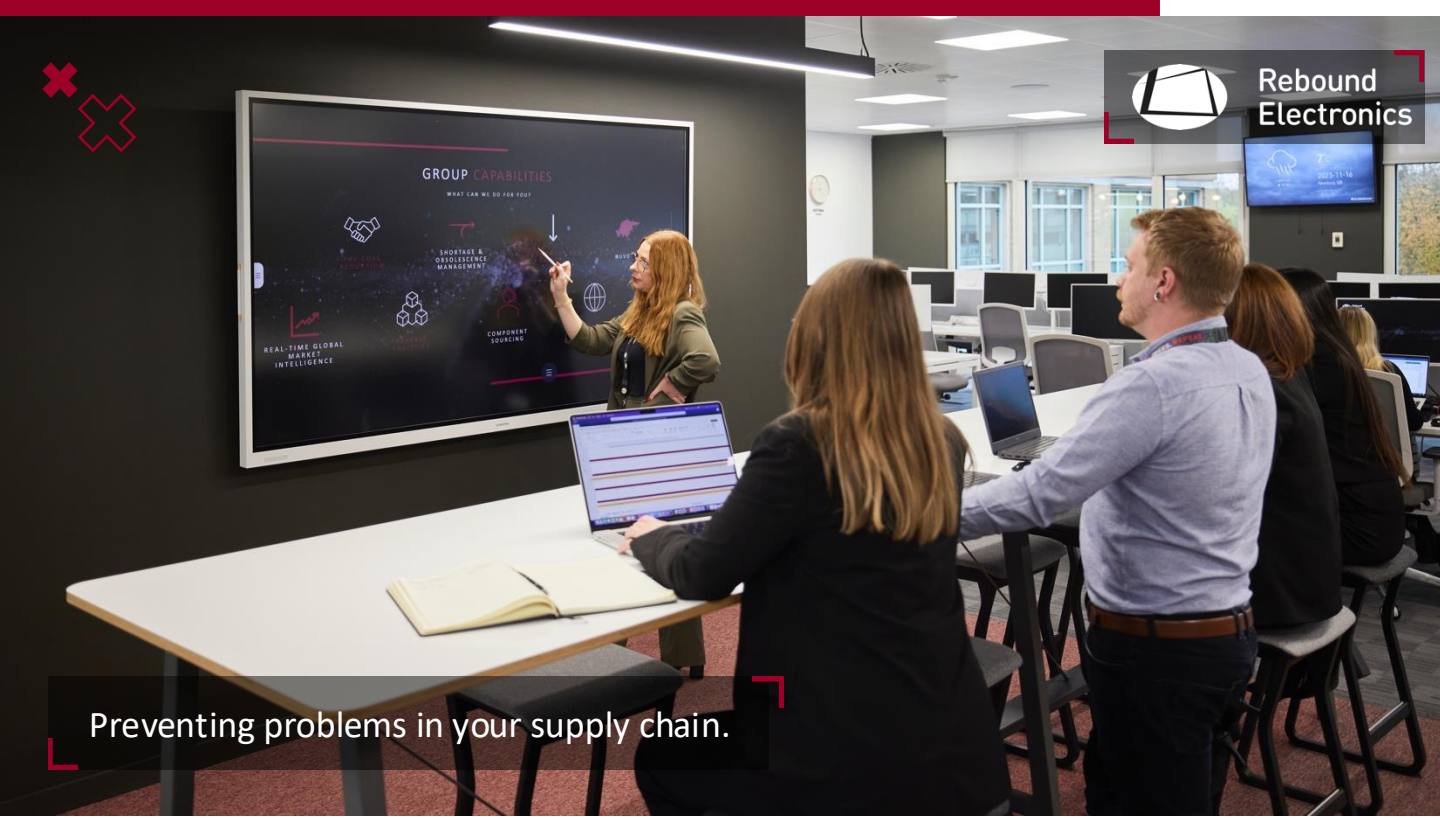

Discrete

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Diodes Inc.	Low Voltage MOSFETS	10-18	↔	SMA	
	TVS Diodes	8-14	↙	↔	
	Bridge Rectifiers	10-18	↔	SMA	
	Schottky Diodes	10-14	↔	↔	
	Rectifiers	10-16	↔	SMA	
	Switching Diodes	10-14	↔	↔	
	Small Signal MOSFETS	10-14	↔	↔	
	Zener Diodes	10-14	↔	↔	
	Bipolar Transistors	10-14	↔	↔	
	Digital Transistors	10-14	↔	↔	
	General Purpose Transistors	10-14	↔	↔	
	Logic	10-12	↔	↔	
EATON	ESD	12-14	↔	↔	
	Fuses	10-14	↔	↔	
	Clips and Holders	12-16	↔	↔	
Everlight	Optocoupler Components	16-20	↔	↔	
Fairchild	Rectifiers	18-52	↙	↔	
	Optocoupler Components	12-20	↔	↔	
Infineon	Low Voltage MOSFETS	12-22	↔	SMA	
	High Voltage MOSFETS	12-28	↔	SMA	
	IGBTs	14-54	↔	SMA	
	Wide Bandgap Mosfets	10-42	↔	↔	
	Digital Transistors	8-32	↔	↔	
	General Purpose Transistors	8-52	↔	↔	
	Mil-Aero Transistors	22-32	↔	↔	
Texas Instruments	Logic	18-22	↔	↔	

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Isocom Components	Optocoupler Components	4-6	↔	↔	
IXYS	High Voltage MOSFETS	52-56	↔	↔	
	IGBTs	52-56	↔	↔	
Keystone	Clips and Holders	12-18	↔	SMA	
Kyocera	Varistors	16-20	↔	↔	
Lite-On	Optocoupler Components	14-16	↔	↔	
Littelfuse	ESD	12-14	↔	↔	
	Diode Arrays	12-14	↔	↔	
	Varistors	16-28	↔	↔	
	Wide Bandgap Mosfets	32-54	↔	↔	
	Fuses	10-14	↔	↔	
	PTC Fuses	10-14	↔	↔	
	Clips and Holders	12-16	↔	↔	
	Thyristors/Triacs	18-22	↔	↔	
	TVS Diodes	8-14	↙	↔	
	Sensors	18-32	↔	SMA	
Micro Commercial Components	Low Voltage MOSFETS	12-26	↔	↔	
	High Voltage MOSFETS	14-30	↔	↔	
	ESD	12-14	↔	↔	
	TVS Diodes	10-12	↔	↔	
	Schottky Diodes	10-14	↔	↔	
	Switching Diodes	10-14	↔	↔	
	Small Signal Mosfets	12-16	↔	↔	
	Zener Diodes	12-16	↔	↔	
	Bipolar Transistors	10-16	↔	↔	
	General Purpose Transistors	10-16	↔	↔	

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Microchip	High Voltage Mosfets	6-34	↔	↔	
	Wide BandGap Mosfets	10-26	↔	↔	
Microsemi	High Voltage MOSFETS	44-54	↔	↔	
	IGBTs	44-54	↔	↔	
	Mil-Aero Diodes	28-54	↔	↔	
	Mil-Aero Transistors	34-62	↔	↔	
Nexperia	Low Voltage MOSFETS	8-18	↔	SMA	
	ESD	8-12	↔	↔	
	Schottky Diodes	8-10	↔	↔	
	Switching Diodes	8-10	↔	↔	
	Small Signal MOSFETS	8-10	↔	↔	
	Zener Diodes	8-10	↙	↔	
	Bipolar Transistors	8-10	↔	↔	
	Digital Transistors	8-10	↔	↔	
	General Purpose Transistors	8-10	↔	↔	
	Logic	8-10	↔	↔	
ON Semiconductor	Low Voltage MOSFETS	12-48	↔	SMA	
	High Voltage MOSFETS	16-44	↔	SMA	
	ESD	14-22	↔	↔	
	Wide Bandgap Mosfets	12-50	↔	↔	
	Schottky Diodes	12-38	↔	↔	
	Rectifiers	18-32	↔	↔	
	Switching Diodes	12-42	↔	SMA	
	Small Signal MOSFETS	14-48	↔	SMA	
	Zener Diodes	12-48	↔	SMA	
	Bipolar Transistors	12-42	↔	SMA	
	Digital Transistors	12-42	↔	SMA	
	General Purpose Transistors	12-42	↔	SMA	
	Logic	10-20	↔	↔	
ProTek Devices	Diode Arrays	10-14	↔	↔	
Renesas	Optocoupler Components	20-22	↔	SMA	
ROHM	High Voltage MOSFETS	14-24	↔	↔	
	Wide Bandgap Mosfets	22-30	↔	↔	
	Schottky Diodes	14-22	↔	↔	
	Switching Diodes	14-22	↔	↔	
	Digital Transistors	14-18	↔	↔	
	General Purpose Transistors	14-18	↔	↔	

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MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Schurter	Fuses	22-42	↔	↔	
	Clips and Holders	22-32	↔	↔	
Semtech	Diode Arrays	10-14	↔	↔	
ST Microelectronics	Low Voltage MOSFETS	15-43	↔	↔	
	High Voltage MOSFETS	16-42	↔	↔	
	IGBTs	16-54	↔	↔	
	ESD	35-54	↙	↔	
	Wide Bandgap Mosfets	35-54	↔	↔	
	Thyristors/Triacs	18-20	↔	↔	
	TVS Diodes	18-20	↔	↔	
	Rectifiers	16-18	↔	SMA	
	Bipolar Transistors	14-26	↔	↔	
TDK EPCOS	Varistors	16-28	↔	↔	
TE Connectivity	PTC Fuses	10-14	↔	↔	
Vishay	Low Voltage MOSFETS	15-44	↔	SMA	
	High Voltage MOSFETS	13-34	↔	SMA	
	TVS Diodes	18-20	↔	↔	
	Bridge Rectifiers	10-12	↔	SMA	
	Rectifiers	10-12	↔	SMA	
	Zener Diodes	12-16	↔	↔	
	Optocoupler Components	6-14	↔	↔	

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INDUSTRIES

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Automotive

Aerospace & Defence

Renewable Energy

Medical

Electromechanical

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Abracon	Timing	14-54+	↙	SMA	Tuning Fortks-32.7668KHZ and 40-52+ weeks, TCXO's are on allocation due to AKM fire
ADDA	Fans	22-26	↔	↔	
Alps Electric	Switches	26-34	↔	↔	
American Zettler	Relays	18-32	↔	↔	
Bivar	Hardware	12-18	↔	↔	
Boyd	Fans	14-16	↔	↔	
	Heatsinks	18-26	↔	↔	
C&K	Switches	14-32	↔	↔	
Churod Electronics	Relays	10-32	↔	↔	
Citizen Finedevice	Timing	14-54	↔	↔	Tuning Fortks-32.7668KHZ and 40-52+ weeks, TCXO's are on allocation due to AKM fire
COSEL	Power Supplies (AC/DC)	14-38	↔	↔	
	Power Supplies (DC/DC)	14-38	↔	↔	
CTS	Switches	10-12	↔	↔	
	Timing	12-32	↔	↔	Tuning Fortks-32.7668KHZ and 40-52+ weeks, TCXO's are on allocation due to AKM fire
CUI Inc	Power Supplies (AC/DC)	26-54+	↔	↔	
	Power Supplies (DC/DC)	14-38	↙	↔	
	Heatsinks	12-14	↔	↔	
Delta	Fans	42-54	↔	↔	
Diodes Inc	Timing	10-14	↔	↔	Tuning Fortks-32.7668KHZ and 40-52+ weeks, TCXO's are on allocation due to AKM fire

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
E-Switch	Switches	14-16	↔	↔	
ECS Inc.	Timing	14-42	↙	SMA	Tuning Fortks-32.7668KHZ and 40-52+ weeks, TCXO's are on allocation due to AKM fire
EPSON Electronics America	Timing	14-28	↔	↔	Tuning Fortks-32.7668KHZ and 40-52+ weeks, TCXO's are on allocation due to AKM fire
Essentra Components	Hardware	14-16	↔	↔	
Fox	Timing	12-42+	↔	↔	Tuning Fortks-32.7668KHZ and 40-52+ weeks, TCXO's are on allocation due to AKM fire
Grayhill	Switches	14-26	↔	↔	
Heyco	Hardware	12-14	↔	↔	
Hongfa	Relays	18-32	↔	SMA	
Infineon	Relays	42-54	↔	↗	
IXYS	Relays	12-32	↔	↔	
Keystone	Hardware	14-16	↔	↔	
Kyocera International	Timing	18-30	↔	↔	Tuning Fortks-32.7668KHZ and 40-52+ weeks, TCXO's are on allocation due to AKM fire
MEAN WELL	Power Supplies (AC/DC)	16-20	↔	↔	
Microchip	Timing	14-28	↔	↗	Tuning Fortks-32.7668KHZ and 40-52+ weeks, TCXO's are on allocation due to AKM fire
Murata	Timing	10-12	↔	↔	Tuning Fortks-32.7668KHZ and 40-52+ weeks, TCXO's are on allocation due to AKM fire
Murata Power Solutions	Power Supplies (AC/DC)	10-12	↔	↔	

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MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
NKK Switches	Switches	12-20	↔	↔	
NMB	Fans	28-42	↔	↔	
Ohmite	Fans	12-14	↗	↗	
Orion Fans	Fans	18-20	↔	↔	
Panasonic	Relays	16-32	↔	↔	
	Switches	12-14	↔	↔	
Qualtek	Fans	22-26	↔	↔	
Raltron	Timing	12-42	↔	↔	Tuning Fortks-32.7668KHZ and 40-52+ weeks, TCXO's are on allocation due to AKM fire
RECOM	Power Supplies (AC/DC)	18-42	↔	↔	
	Power Supplies (DC/DC)	16-38	↔	↔	
Rosenberg	Fans	20-22	↔	↔	
Schneider Electric	Relays	18-20	↔	↔	
Song Chuan	Relays	26-38	↔	↔	
SUNON	Fans	32-44	↔	↔	
TE Connectivity Sensors	Relays	14-16	↔	↔	All stable except the IM ready Series- allocation 52+ weeks
	Switches	12-14	↔	↔	
Vicor	Power Supplies (AC/DC)	28-54	↔	↔	
	Power Supplies (DC/DC)	28-54	↔	↔	
Wakefield Thermal	Heatsinks	12-14	↔	↔	
Wall Industries	Power Supplies (AC/DC)	10-12	↔	↔	
	Power Supplies (DC/DC)	10-12	↔	↔	
ZF Electronics	Switches	20-22	↔	↔	

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High - End

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
AZ Displays	LCD's	14-16	↙	↔	
Compulab	SOM	18-26	↙	↙	
Cypress	8 bit MCU	12-18	↙	↔	
	32 bit MCU	12-54	↙	↔	
	USB	44-54	↙	↔	
	Automotive	34-48	↔	↔	
Formerica	Fibre Optic Transceivers	14-18	↙	↔	
Infineon	Automotive	Allocation	↔	↔	
iWave Systems	SOM	28-32	↙	↙	
Lattice Semiconductor	FPGA	18-26	↙	↙	
Microchip	8 bit MCU	6-14	↔	↔	
	32 bit MCU	6-20	↔	↙	
	PHY/ Ethernet	8-14	↔	↔	
	USB	6-12	↔	↔	
	32 bit MPU	6-22	↔	↔	
Microsemi	FPGA	10-32	↔	↔	
NXP	8 bit MCU	15-42	↔	↔	
	32 bit MCU	15-42	↔	↔	
	Automotive	20-54	↔	↔	
	32 bit MPU	20-42	↔	↔	
	Network Processors	20-44	↔	↔	
Renesas RA	32 bit MCU	20	↔	↔	
Renesas	8 bit MCU	14	↔	↔	
	32 bit MCU	14	↔	↔	
	Automotive	48	↔	↔	
	32 bit MPU	14	↔	↔	
Sharp	LCDs	30-32	↙	↔	
ST Microelectronics	8 bit MCU	12-26	↗	↔	
	Automotive	42-54	↔	↔	
	32 bit MPU	18-22	↔	↔	
	STM32F0- 32 bit MCU	12-14	↔	↔	
	STM32F1- 32 bit MCU	18-22	↔	↔	
	STM32L- 32 bit MCU	18-22	↗	↙	
	Balance 32 bit MCU	12-14	↗	↙	
	STM32F2/F4/F7/H7	12-22	↗	↙	
Texas Instruments	MCUs & Processors	30-32	↔	↔	
Xilinx	FPGA	18-22	↔	↔	
Zilog	8 bit MCU	26-42	↔	↔	

Interconnect

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Adam Tech	I/O Connectors	18-20	↔	↗	
	PCB Connectors	18-20	↔	↗	
Altech Corp.	Terminal Blocks & Crimps	14	↔	↔	
Amphenol Communications Solutions	D-Sub Connectors	10-12	↔	↗	
	Data & Telecom	10-12	↔	↔	
	PCB Connectors	10-12	↔	↔	
	FFC/FPC	10-12	↔	↔	
Amphenol Sine System	Circular Connectors	10-22	↔	↗	
ASSMAN WSW Components	Data & Telecom	22	↔	↗	
	PCB Connectors	22	↔	↗	
	IC Sockets	22	↔	↗	
Bulgin	Circular Connectors	18-20	↔	↗	
EDAC	PCB Connectors	16-24	↔	↔	
Global Connector Technology	PCB Connectors	10-12	↔	↗	
	FFC/FPC	10-12	↔	↗	

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
HALO Electronics	Data & Telecom	14-20	↔	↔	
HARTING	PCB Connectors	12-14	↔	↔	
Hirose Electric	PCB Connectors	10-18	↗	↔	
	RF Connectors	10-18	↗	↔	
	FFC/FPC	10-18	↗	↔	
JST	PCB Connectors	18	↔	↔	
Mil-Max	PCB Connectors	6-8	↔	↔	
	IC Sockets	6-8	↔	↔	
Ouipiin	PCB Connectors	16-22	↔	↔	
Sullins	PCB Connectors	8-10	↔	↔	
TE Connectivity	Automotive Connectors	14-18	↔	*	
	Circular Connectors	14-18	↔	*	
	Relays	14-18	↔	*	
	Data & Telecom	14-18	↔	*	
	PCB Connectors	14-18	↔	*	
	RF Connectors	14-18	↔	*	
	IC Sockets	14-18	↔	*	
	Terminal Blocks & Crimps	14-18	↔	*	
	Lighting Connectors	14-18	↔	*	
WAGO	Terminal Blocks & Crimps	16	↔	↗	
	Lighting Connectors	16	↔	↔	
WECO	Terminal Blocks & Crimps	22	↔	↔	

Lighting Solutions & Opto

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Bridgelux	Chip On Board (CoB)	8-10	↔	↔	
Dialight	Indication LEDs	12-18	↔	↔	
	6V (LED Optics)	12-18	↔	↔	
Everlight	Automotive LEDs (AEC-Q101 Certified)	10-12	↔	↔	
	Infrared Components/ LED	16-18	↔	↔	
	Indication LEDs	16-18	↔	↔	
	UV LEDs	10-12	↔	↔	
Excellence Optoelectronics Inc.	Automotive LEDs (AEC-Q101 Certified)	10-12	↔	↔	
General Luminaire	Standard Light Engines (Level 2 Boards)	16-18	↔	↔	
Inolux	Indication LEDs	8-10	↔	↔	
Kingbright	LED Displays	12-14	↔	↔	
	Indication LEDs	10-12	↔	↔	
Lite-On	Infrared Components/ LED	16-18	↔	↔	
	LED Displays	16-18	↔	↔	
	Indication LEDs	18-22	↔	↔	
Lumex	LED Displays	18	↔	↗	
	Indication LEDs	10-16	↔	↗	
Lumileds	Illumination High Power LEDs (White)	10-16	↔	↔	
	Illumination High Power LEDs (Colors)	10-16	↔	↔	
	Illumination High Power LEDs (White & Colors)	10-12	↔	↔	
	Horitcultural Mid Power LEDs (White & Colors)	10-12	↔	↔	
	Automotive LEDs (AEC-Q101 Certified)	16-18	↔	↔	
	Chip On Board (CoB)	10-12	↔	↔	
	Standard Light Engines (Level 2 Boards)	20-28	↔	↔	
	Infrared Components/ LED	28	↔	↔	
	UV LEDs	14-18	↔	↔	
Meanwell	LED Drivers	12-22	↔	↔	
Murata	Lighting Controls	28-32	↔	↔	

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MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Nichia	Illumination High Power LEDs (White)	8-12	↔	↔	
	Illumination High Power LEDs (Colors)	8-12	↔	↔	
	Illumination High Power LEDs (White & Colors)	10-12	↔	↔	
	Horitcultural Mid Power LEDs (White & Colors)	10-12	↔	↔	
	Chip On Board (CoB)	14-16	↔	↔	
ROHM	Infrared Components/ LED	8-10	↔	↔	
	Indication LEDs	12-14	↔	↔	
Samsung LED	Illumination High Power LEDs (White)	8-10	↔	↔	
	Illumination High Power LEDs (White & Colors)	10-12	↔	↔	
	Horitcultural Mid Power LEDs (White & Colors)	10-12	↔	↔	
	Chip On Board (CoB)	8-10	↔	↔	
	Standard Light Engines (Level 2 Boards)	8-10	↔	↔	
Seoul Semiconductor	Illumination High Power LEDs (White)	8-10	↔	↔	
	Illumination High Power LEDs (White & Colors)	8-10	↔	↔	
	Horitcultural Mid Power LEDs (White & Colors)	8-10	↔	SMA	
	Chip On Board (CoB)	10-12	↔	↔	
	Standard Light Engines (Level 2 Boards)	12-14	↔	↔	
Seoul Viosys	UV LEDs	10-12	↔	↔	
Stanley Electric	LED Displays	14	↔	↔	
	Indication LEDs	12-14	↔	↔	
TE Connectivity	6A (Heat Sinks, LED Holders)	22-52	↔	↔	
TT Electronics- Optek Technology	Infrared Components/ LED	28-46	↔	↗	
VCC	Indication LEDs	14	↔	↔	
Vishay	Infrared Components/ LED	10-22	↗	↔	
	Indication LEDs	10-32	↔	↗	
	UV LEDs	16-18	↔	↔	

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Memory

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
ADATA	Memory Modules	8-10	↔	↗	
	eMMC	8-10	↗	↗	
	Memory Cards	10-12	↔	↗	
	Solid State Drives (SSD)	10-14	↗	↗	
Alliance Memory	PC (Commodity) DRAM	4-22	↔	↔	
	Mobile RAM	10-18	↙	↔	
	SRAM	10-32	↙	↔	
	NOR Flash	14-22	↔	↔	
	NAND Flash	10-26	↙	↔	
	eMMC	10-14	↔	↔	
Cypress	SRAM	14-54	↙	↔	
	NOR Flash	14-28	↙	↔	
	FRAM & NVSRAM	14-28	↙	↔	
Everspin Technologies	MRAM	14-30	↔	↔	
Greenliant	NOR Flash	10-18	↔	↔	
	eMMC	14-20	↗	↗	
	Memory Cards	10-18	↔	↗	
	Solid State Drives (SSD)	10-18	↗	↗	
Kingston	PC (Commodity) DRAM	4-6	↔	↔	
	Memory Modules	4-8	↔	↔	
	eMMC	6-8	↗	↗	
	Memory Cards	4-12	↔	↗	
	Solid State Drives (SSD)	6-10	↗	↗	
Macronix	NOR Flash	10-14	↔	SMA	
	NAND Flash	10-14	↔	SMA	
	eMMC	20-28	↔	↗	Parts on allocation, MXIC is not quoting and not taking new orders for the time being

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Microchip	SRAM	6-14	↙	↔	
	NOR Flash	6-28	↙	↔	
	EEPROM	6-28	↙	↔	
	EPROM	14-28	↔	↗	
Onsemi	SRAM	22-42	↔	↔	
	EEPROM	22-32	↙	↔	
Renesas	SRAM	20-24	↙	↔	
	NOR FLASH	20-24	↙	↔	
	DATA FLASH	30-32	↙	↔	
Samsung LED	PC (Commodity) DRAM	54-56	↔	↔	
	Memory Modules	54-56	↔	↔	Parts on allocation, Samsung is not quoting and not taking new orders for the time being
	eMMC	54-56	↔	↔	
	Solid State Drives (SSD)	54-56	↔	↔	
SkyHigh Memory	SLC NAND Flash	8-12	↙	↔	
	eMMC	10-14	↔	↙	
STMicroelectronics	EEPROM	8-14	↔	↔	Now on allocation

Passives

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Apl Delevan	Inductors	16-18	↔	↔	
Cornell Dubilier Electronics	Electrolytic	24-48	↔	↔	
	Capacitor	28-42	↔	↔	
CTS	Resistor Networks	18-42	↔	↔	
Eaton	Capacitors - Supercapacitors	12-22	↙	↔	
	Inductors	22-32	↙	↔	
ELNA	Capacitors - Supercapacitors	32-54+	↔	↔	
HALO Electronics	Inductors	16-18	↙	↔	
Murata	Filters	14-18	↔	↔	
	Inductor / Transformers	14-22	↔	↔	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	12-16	↔	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	12-14	↗	↔	
	Leaded Capacitors- Ceramic	18-20	↔	↔	
	Specialty Capacitors	18	↔	↔	
	Surface Mount General Capacitors	16-18	↔	↔	
NIC Components	Electrolytic	24-32	↙	↔	
	Filters	16-22	↔	↔	
	Inductors	16-22	↔	↔	
	Fixed Resistors	14-20	↔	↔	
		20-22	↔	↔	
	Surface Mount General Capacitors - Ceramic (Greater than 1 uf)	14-16	↔	↔	
	Leaded Capacitors - Ceramic	28-30	↔	↔	

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
Nichicon	Electrolytic	20-32	↙	↔	
Panasonic	Electrolytic	20-32	↙	↔	
	Capacitors- Polymer Tantalum	12-14	↗	↔	
	Inductors / Transformers	20-24	↙	↔	
	Fixed Resistors	22-32	↙	↔	
	Resistor Networks	20-30	↔	↔	
Paktron Capacitors	Capacitors- Film	14-18	↔	↗	
Samsung Electro-Mechanics	Fixed Resistors	46-48	↔	↔	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	46-48	↔	↔	
	Surface Mount General Capacitors – Ceramic (Great than 1 uf)	14-16	↗	↔	
	Surface Mount General Capacitors-Ceramic *Automotive Upgrade	14-16	↗	↔	
Stackpole Electronics	Fixed Resistors	18-26	↔	↔	
Sumida	Inductors	22-26	↔	↔	
Taiyo Yuden	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	20-22	↔	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	22-24	↔	↔	
	Surface Mount General Capacitors-Ceramic *Automotive Upgrade	22-24	↔	↔	
TDK	Filters	14-18	↗	↗	
	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	22-26	↔	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	26-38	↗	↔	
	Surface Mount General Capacitors-Ceramic *Automotive Upgrade	26-32	↔	↔	
TDK EPCOS	Capacitors- Film	26-54+	↔	↔	
	Filters	14-18	↗	↔	
	Inductors / Transformers	18-22	↔	↔	

MANUFACTURER	PRODUCT	LEAD TIME (WKS)	TREND	PRICING	COMMENTS
TT Electronics- BI Technologies	Trimmers & Pots	42-54	↔	↔	
TT Electronics- IRC	Fixed Resistors	22-54	↔	↔	
United Chemi-Con	Electrolytic	24-36	↗	↔	
Viking	Surface Mount General Capacitors- Ceramic (Less than 1 uf)	18-20	↔	↔	
	Surface Mount General Capacitors- Ceramic (Greater than 1 uf)	16-18	↔	↔	
Vishay	Trimmers & Pots	12-22	↔	↔	
	Capacitors- Film	14-22	↙	↔	
	Capacitors- Supercapacitors	14-16	↔	↔	
	Capacitors- Tantalum Molded	18-20	↙	↔	
	Capacitors- Tantalum Conformals	14-16	↔	↔	
	Capacitors- Polymer Tantalum	14-16	↗	↔	
	Inductors / Transformers	14-16	↙	↔	
	Fixed Resistors	12-22	↙	↔	
	Surface Mount General Capacitors - Ceramic (Less than 1 uf)	16-18	↙	↔	
	Leaded Capacitors - Ceramic	20-26	↙	↔	
	Specialty Capacitors	28-36	↙	↔	
WIMA	Capacitors- Film	14-18	↙	↔	
Wurth Elektronik	Inductors / Transformers	20-22	↔	↔	
Yageo	Fixed Resistors	20-22	↔	↔	
	Resistor Networks	22-26	↔	↔	
	Surface Mount General Capacitors - Ceramic (Less than 1 uf)	16-18	↔	↔	
	Surface Mount General Capacitors - Ceramic (Greater than 1 uf)	16-18	↔	↔	
	Surface Mount General Capacitors- Ceramic *Automotive Upgrade	16-18	↔	↔	

enquiries@reboundeu.com

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Jenny Ortilla
Senior Commercial Analyst