





Allocation and Recession Impacting Prices

The electronic component supply chain is still experiencing a mismatch of scarcity and excess. Inventory correction efforts are ongoing but expected to resolve in late Q3-Q4 2023. Emerging technology and the rising popularity of artificial intelligence (AI) will drive demand to digest existing excess electronic component stock.

Consumer spending continues to remain low from macroeconomic pressures and recession concerns. Memory manufacturers, including SK Hynix, Samsung Electronics, Kioxia, and Micron, have seen monumental drops in sales for DRAM and Flash-NAND

products over Q1. Lead times within volatile memory, non-volatile memory, and storage are all forecasted to drop over the next several months.

Despite low consumer spending, some product lines are still on allocation. This is likely a result of Al's rising use among enterprises due to ChatGPT and similar Al tools' popularity.

The PEMCO market continues to be impacted by raw material shortages and logistics challenges. These constraints contribute to rising lead times and prices across the market as manufacturers battle to keep deliveries on schedule.



Volatile Memory

Future Lead Times	Stable (through June)
Price	Stable

Lead time and price for the memory market will remain stable over the coming months due to the rising excess stock in memory from the consumer demand slump. The trends for price and lead time over the coming quarter will decrease. The average lead time for volatile memory across manufacturers is 11 - 18 weeks.

Infineon Technology's Cypress SRAM is no longer on allocation.

Micron Technology continues its customer support plans on DDR I/DDR II, DDR3/LPDDR3, and DDR4/LPDDRA product lines. Lead times have dropped considerably compared to Q1.

Samsung's DDR3 1Gb and 2Gb have reached EOL.



Volatile Memory

TECHNOLOGY		LEAD TIME		PRICE	
	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
SRAM	Infineon	26 - 42 weeks	Stable -	Stable -	Former Cypress
Shaivi	ISSI	18 - 20 weeks	Stable -	Stable -	
	ISSI	18 - 16 weeks	Stable -	Stable -	
SDRAM	Micron	10 - 14 weeks	Stable -	Stable -	
	Winbond	12 - 18 weeks	Stable -	Stable -	
	ISSI	8 - 16 weeks	Stable -	Stable -	
	Micron	10 - 14 weeks	Stable -	Stable -	Customer Support Plan
DDRI/DDRII Winb	Winbond	12 - 18 weeks	Stable -	Stable -	
	ISSI	8 - 16 weeks	Stable -	Stable -	
DDR3/LPDDR3	Micron	8 - 14 weeks	Stable -	Stable -	Customer Support Plan
DDR3/LPDDR3	Samsung	10 - 16 weeks	Stable -	Stable -	DDR3 1Gb + 2Gb EOL'd
	Winbond	12 - 18 weeks	Stable -	Stable -	
DDR4/LPDDR4	Micron	8 - 14 weeks	Stable -	Stable -	Customer Support Plan
DDR4/LPDDR4	Samsung	10 - 16 weeks	Stable -	Stable -	



Non-Volatile Memory

Future Lead Times	Stable (through June)
Price	Mostly Stable

Lead time and price for the memory market will remain stable over the coming months due to the rising excess stock in memory from the consumer demand slump. The trends for price and lead time over the coming quarter will decrease. The average lead time for non-volatile memory across manufacturers is 16 - 23 weeks.

Micron will continue its customer support plan on Flash-NOR and Flash-NAND.

Kioxia's P-WSON package for Flash-NAND is on allocation.

EEPROM suppliers **Microchip** (formerly Atmel), **On Semiconductor**, and **STMicroelectronics** are seeing stable lead times and prices in the next three months. All three manufacturers have their EEPROM products on allocation. Microchip is providing a PSP Program for its EEPROM products.



Non-Volatile Memory

TECHNOLOGY		LEAD TIME		PRICE	
	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Micron	12 - 18 weeks	Stable -	Stable -	Customer Support Plan
	Infineon	18 - 22 weeks	Stable -	Stable -	Former Cypress
Flash-NOR	ISSI	10 - 14 weeks	Stable -	Stable -	
	Macronix	8 - 12 weeks	Stable -	Stable -	
	Winbond	10 - 16 weeks	Stable -	Stable -	
	Micron	8 - 16 weeks	Stable -	Down ▼	Customer Support Plan
	Sky High Memory	8 - 12 weeks	Stable -	Down ▼	
Flash-NAND	Kioxia	10 - 16 weeks	Stable -	Stable -	P-WSON package on Allocation
	Macronix	10 - 14 weeks	Stable -	Stable -	
	Winbond	10 - 16 weeks	Stable -	Stable -	
50444/44044	Infineon	26 - 36 weeks	Stable -	Stable -	Former Cypress
FRAM/MRAM	Everspin	12 - 20 weeks	Stable -	Stable -	
	Microchip (former Atmel)	30 - 40 weeks	Stable -	Stable -	Allocation/PSP Program
EEPROM	ON Semiconductor	30 - 40 weeks	Stable -	Stable -	Allocation
	STMicroelectronics	40 - 50 weeks	Stable -	Stable -	Allocation



Storage

Future Lead Times	Stable (through June)
Price	Mostly Stable

Lead time and price will remain stable over the coming months. Some manufacturers will see decreases in lead time and price compared to Q1. The average lead time for storage across manufacturers is 10 - 15 weeks.

Micron's low-density eMMC products (4GB, 8GB, 16GB) are now EOL.

ISSI's 2D NAND Technology is no longer receiving support.

TECHNOLOGY		LEAD	TIME	PRICE	
	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Micron	12 - 16 weeks	Stable -	Down ▼	Low density eMMC (4GB, 8GB, 16GB) EOL.
	WD / Sandisk	8 - 12 weeks	Stable -	Stable -	
eMMC	SkyHigh Memory	10 - 12 weeks	Stable -	Stable -	
еммс	Kioxia	12 - 15 weeks	Stable -	Stable -	
	ISSI	12 - 25 weeks	Stable -	Stable -	2D Nand Technology not any longer supported
	Samsung	8 - 18 weeks	Stable -	Stable -	
	Micron	8 - 12 weeks	Stable -	Stable -	
SSD	WD / Sandisk	8 - 15 weeks	Stable -	Stable -	
	Kioxia	12 - 15 weeks	Stable -	Stable -	
	Virtium	10 - 12 weeks	Stable -	Stable -	
	WD / Sandisk	8 - 15 weeks	Stable -	Stable -	
Cards	Micron	14 - 16 weeks	Stable -	Stable -	



Discrete

Future Lead Times	Mostly Stable (through June)
Price	Mostly Stable

Stabilization in lead time and price continues, with expectations of future downward trends. The average lead time for discrete across manufacturers is 27 - 46 weeks.

Vishay and Nexperia see lead time and price reductions on their general discrete product lines. Nexperia sees further lead time and price reductions for its power lines and Vishay on its optocouplers.

TECHNOLOGY	SUPPLIER	LEAD TIME		PRICE	
		CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	ON Semiconductor	36 - 42 weeks	Stable -	Stable -	
	Vishay	22 - 30 weeks	Down ▼	Down ▼	LT & Price reductions
General Discrete	STMicroelectronics	20 - 36 weeks	Stable -	Stable -	
	Nexperia	12 - 27 weeks	Down ▼	Down ▼	LT & Price reductions
	Nexperia	12 - 39 weeks	Down ▼	Stable -	LT reductions
	STMicroelectronics	26 - 52 weeks	Stable -	Stable -	
Power	Vishay	70 - 120 weeks	Stable -	Up ▲	
	Infineon	24 - 52 weeks	Stable -	Stable -	
	ON Semiconductor	50 - 60 weeks	Stable -	Stable -	
	ON Semiconductor	20 - 36 weeks	Stable -	Stable -	
Optocouplers	Toshiba	16 - 26 weeks	Stable -	Stable -	
	Vishay	18 - 26 weeks	Stable -	Down ▼	LT reductions



Standard Logic & Linear

Future Lead Times	Mostly Stable (through June)
Price	Mostly Going Up

Lead time and price are down compared to Q1 across most manufacturers. Allocation due to supply constraints and shortages has mostly alleviated except for some product lines. The average lead time for logic and linear across manufacturers is 11 - 32 weeks.

Nexperia has announced that parts are no longer on allocation, but some packages, including SOT353, SOT6-series, SOT337-340, and SOT12xx-series, still face higher lead times.

Onsemi's TPSCo fab was decommissioned, which has caused a severe shortage and outlook for CY2023, which remains challenging for supply unless it is moved to alternate part numbers and fabs. A few logic parts have been discontinued due to the wafer fab being sold. The current market situation has contributed to an increase in prices.

Texas Instruments has seen supply improve since Q1 for logic and linear chips.

STMicroelectronics has experienced lead stabilization for its linear chips, but most of its products are still on allocation.

TECHNOLOGY SUPPLIER	LEAD	TIME	PRICE		
	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS	
	Nexperia (NXP / PSH)	6 - 20 weeks	Down ▼	Down ▼	No longer any parts on ALLOCATION, but for some packages like SOT 353, SOT6- series, SOT337-340 and SOT12xx-series - still higher leadtimes
Logic	ON Semiconductor (incl. exFSC)	15 - 52 weeks	Stable -	Stable -	TPSCo fab decommit causing severe shortage and outlook for CY2023 remains challenging for supply, unless moving to alternate part numbers + fabs. Current market situation has led to price increases. A few Logic parts are discontinued due to Wafer Fab being sold.
	Texas Instruments	12 - 26 weeks	Stable -	Down ▼	Supply improved from Q1
Linear	STMicroelectronics	12 - 36 weeks	Stable -	Stable -	LT somewhat stabilizing and majority of offering still on allocation
Erioui	Texas Instruments	12 - 26 weeks	Stable -	Down ▼	Supply improved from Q1



Advanced Analog

Future Lead Times	Mostly Stable (through June)
Price	Mostly Stable

Supply constraints are still prominent in the advanced analog market sector. There is a large amount of stabilization, despite conditions. Some manufacturers expect lead times and prices to increase over the coming months, while others see lead times and prices decreasing. The average lead time for advanced analog across manufacturers is 28 - 51 weeks.

Analog Devices announced that 50% of all its lead times for Dataconverters, OPA, Interfaces, and Power Management products are over 13 weeks.

Texas Instruments and STMicroelectronics report that supply constraints are affecting their Dataconverters, OPA, Interfaces, and Power Management products.

STMicroelectronics reports that its Multimedia products' prices and lead times are increasing over the next quarter.

Infineon reports that supply constraints will affect its power management product lines.

NXP cites supply constraints leading to increased lead times on its interface product lines.



Advanced Analog

TECHNOLOGY		LEAD TIME		PRICE	
	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Analog Devices	30 - 70 weeks	Down ▼	Stable -	50% leadtimes <13 weeks
Dataconverters	Texas Instruments	25 - 70 weeks	Stable -	Stable -	Supply remains tight
	STMicroelectronics	30 - 35 weeks	Stable -	Stable -	Supply Constraint
	Analog Devices	13 - 35 weeks	Down ▼	Stable -	50% leadtimes <13 weeks
OPA	Texas Instruments	25 - 70 weeks	Stable -	Stable -	Supply remains tight
	STMicroelectronics	30 - 35 weeks	Stable -	Stable -	Supply Constraint
	NXP Semiconductor	39 - 45 weeks	Stable -	Stable -	Supply Constraint
Interfaces (LVDS,UART USB)	Analog Devices	26 - 60 weeks	Down ▼	Stable -	50% leadtimes <13 weeks
	Texas Instruments	25 - 50 weeks	Stable -	Stable -	Supply remains tight
Multimedia	NXP Semiconductor	40 - 52 weeks	Stable -	Stable -	
Products	STMicroelectronics	30 - 40 weeks	Up ▲	Up ▲	Prices and lead times up
	STMicroelectronics	30 - 40 weeks	Stable -	Stable -	Supply Constraint
Power Management (Low Drop, PWM,	Texas Instruments	25 - 70 weeks	Stable -	Stable -	Supply remains tight
Switching Reg.)	Infineon	30 - 45 weeks	Stable -	Stable -	Supply Constraint
	Analog Devices	26 - 50 weeks	Down ▼	Stable -	50% leadtimes <13 weeks



Embedded Processing

8-Bit Lead Time/Price Stable

16-Bit Lead Time/Price Stable

32-Bit Lead Time/Price Stable

DSP Lead Time/Price Stable

The market continues to stabilize, with only a few suppliers forecasted to raise their prices in the next 3 months. Most parts are facing allocation or tight capacity due to high demand from industrial and automotive manufacturers. The average lead time for embedded processing across manufacturers is 26 - 56 weeks.

NXP Semiconductor's 8/16/32-bit and DSP products are seeing improved lead times in parts of the Americas and APAC. Products are still constrained in EMEA. Price increases came in January of 2023, with the cancel/reschedule window for orders being revised to the previous standard of 4, 8, or 12 weeks.

Microchip's 8/16/32-bit products face extremely long lead times on non-PSP items in the Americas and APAC. EMEA has seen reduced lead times, but orders cannot be expedited unless they are a part of the PSP program. Prices saw an increase in January.

STMicroelectronics's 8/16/32-bit products are seeing improved lead times and slightly reduced demand within EMEA. The STM32H7 line of 32-bit processors is currently under severe supply constraints.

Texas Instruments' 16-bit and DSP products are seeing some supply improvement in Asia. The Americas and EMEA are still experiencing constrained supplies with heavy expedite requests. So far, there has been a slight improvement.

Most of **Infineon's** 8/32-bit processors are on allocation. Some of its 16-bit processors are seeing a reduced demand within EMEA but are still on allocation.

Analog Devices reports improved lead times in the Americas and EMEA for DSP.



Embedded Processing

		LEAD	TIME	PRICE	
TECHNOLOGY	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	NXP Semiconductor	26 -65 weeks	Stable -	Stable -	Lead-times improved on some parts in the Americas and APAC. Still constrained in EMEA. Cancel/Reschedule window revised to previous standard of 4, 8, or 12 wks. Price increases came through in Jan '23.
	Infineon	26 - 52 weeks	Stable -	Stable -	Most parts are on allocation.
8 Bit	Microchip	32 - 75 weeks	Stable -	Stable -	Extremely long lead-times especially on non-PSP items in the Americas and APAC. EMEA has seen reduced lead-times. Orders cannot be expedited unless on the PSP program. Q1 '23 price increase.
	Silicon Laboratories	20 - 50 weeks	Stable -	Stable -	Items on soft/full allocation in the Americas and EMEA and soft allocation in Asia.
	STMicroelectronics	35 - 52 weeks	Stable -	Stable -	Imporved lead-times. EMEA seeing a slight reduction in demand.
	Infineon	24 - 52 weeks	Stable -	Stable -	Some parts are on allocation. EMEA seeing slight reduction in demand as well.
	NXP Semiconductor	26 - 65 weeks	Stable -	Stable -	Lead-times improved on some parts in the Americas and APAC. Still constrained in EMEA. Cancel/Reschedule window revised to previous standard of 4, 8, or 12 wks. Price increases came through in Jan '23.
16 Bit	Microchip	32 - 75 weeks	Stable -	Stable -	Extremely long lead-times especially on non-PSP items in the Americas and APAC. EMEA has seen reduced lead-times. Orders cannot be expedited unless on the PSP program. Q1 '23 price increase.
	STMicroelectronics	35 - 52 weeks	Stable -	Stable -	Improved lead-times. EMEA seeing a slight reduction in demand.
	Texas Instruments	35 - 70 weeks	Stable -	Stable -	Asia is seeing some supply improvement. EMEA and the Americas are still seeing constrained supply, heavy expedte requests, and little improvement.
	AMD	14 - 26 weeks	Stable -	Stable -	
	Infineon	20 - 52 weeks	Stable -	Stable –	Most parts are on allocation.
	Intel	18 -25 weeks	Stable -	Stable -	
32 Bit	Microchip	32 - 75 weeks	Stable -	Stable -	Extremely long lead-times especially on non-PSP items in the Americas and APAC. EMEA has seen reduced lead-times. Orders cannot be expedited unless on the PSP program. Q1 '23 price increase.
	NXP Semiconductor	26 -65 weeks	Stable -	Stable -	Lead-times improved on some parts in the Americas and APAC. Still constrained in EMEA. Cancel/Reschedule window revised to previous standard of 4, 8, or 12 wks. Price increases came through in Jan '23.
	Silicon Laboratories	40 - 50 weeks	Stable -	Stable -	Items on soft/full allocation in the Americas and EMEA and soft allocation in Asia.
	STMicroelectronics	12 - 35 weeks	Stable -	Stable -	Most items have improved lead-times. STM32H7 family still under severe supply constraints.
	Analog Devices	13 - 52 weeks	Stable -	Stable -	Lead-times have improved in the Americas and EMEA.
DSP	NXP Semiconductor	26 - 65 weeks	Stable -	Stable -	Lead-times improved on some parts in the Americas and APAC. Still constrained in EMEA. Cancel/Reschedule window revised to previous standard of 4, 8, or 12 wks. Price increases came through in Jan '23.
	Texas Instruments	35 - 70 weeks	Stable -	Stable -	Asia is seeing some supply improvement. EMEA and the Americas are still seeing constrained supply, heavy expedte requests, and little improvement.



Programmable Logic

Future Lead Times	Down (through June)
Price	Stable

Intel's lead times and prices are stable but will see a decrease in lead time over the coming quarter. The average lead time across Intel's programmable logic products is 39 - 42 weeks.

FPGA Cyclone, Arria, and Stratix are still under allocation, except for STRATIX 10 and ARRIA V GZ. There should be improvement near the end of Q2.

FPGA new CycloneV, ArriaV, and StratixV are under tight supply and hard allocation until Q2. ARRIA V GZ, CYCLONE II, STRATIX VE, and STRATIX GT/GX are going off allocation soon.

FPGA legacy 6K, 8K, 10K, and Apex are reported to see a significant lead time increase. There has been no improvement up to now.

CPLD products are still witnessing long lead times until the end of Q2 with forecasted improvement.

		LEAD TIME		PRICE	
TECHNOLOGY	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
FPGA (new CycloneV, StratixV, ArriaV)	Intel	50 - 50 weeks	Down ▼	Stable -	Cyclone, Arria, Stratix still under allocation (Stratix 10 excluded) ARRIA V GZ out of allocation from Feb 8th next. Is expected improvement end of Q2.
FPGA (focus Cyclone, Stratix, Arria)	Intel	50 - 60 weeks	Down ▼	Stable -	ARRIA V GZ, CYCLONE II, STRATIX VE, GS, STRATIX GT, GX be off from allocation. STRATIX 10 excluded from allocation. All the other families remain under tight supply hard allocation up to Q2-23.
FPGA (legacy 6K, 8K,10K,Apex)	Intel	45 - 45 weeks	Down ▼	Stable -	Significant lead time increase communicated by supplier - No improvement up to now
CPLD	Intel	45 - 45 weeks	Down ▼	Stable -	Still long lead time communicated by Supplier up to end Q2-23 where improvement is planned .
Tools	Intel	4 - 8 weeks	Down ▼	Stable -	



Lighting

Future Lead Times	Stable (through June)
Price	Stable

Lead time and price are decreasing across the market, with further stabilization forecasted in the coming months. The average lead time for lighting across manufacturers is 6 - 8 weeks.

Cree sees stabilization across its LED product families, specifically LUXEON Color and Legacy.

Samsung reports price decreases for some LED products, including 285, 3030EV0, 5050, COB, and particular 3535 parts.

Osram's LEDs larger than 0.5W for automotive and illumination applications are seeing 16 - 20 week lead times in contrast to its general 8 - 12 weeks.

TECHNOLOGY	SUPPLIER	LEAD TIME		PRICE	
		CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Cree	6 - 8 weeks	Stable -	Stable -	1. Product families: LUXEON Color and Legacy products.
LED <0.5W	Lumileds	6 - 8 weeks	Stable -	Stable -	
LED <0.5VV	Osram	6 - 8 weeks	Stable -	Stable -	
	Samsung	6 - 8 weeks	Stable -	Stable -	2835, 3030EVO, 5050 price down
	Cree	6 - 8 weeks	Stable -	Stable -	1. Product families: LUXEON Color and Legacy products.
LED >0.5W	Lumileds	6 - 8 weeks	Stable -	Stable -	
LED >0.5W	Osram	8 - 12 weeks	Stable -	Stable -	Some Automotive items and illumination 16-20 weeks lead time.
	Samsung	6 - 8 weeks	Stable -	Stable -	COB and some 3535 price down
Optic	Ledil	6 - 8 weeks	Stable -	Stable -	



Passives

Future Lead Times	Mix of Going Up, Stable, Down
Price	Mix of Going Up, Stable, Down

Lead times are seeing some stability but are set to increase alongside prices as raw material shortages impact manufacturers. To combat these challenges, some manufacturers are placing popular products on allocation. The average lead time for passives across manufacturers is 19 - 32 weeks.

Kemet's automotive-grade MLCCs saw an increase in lead times. Within the EU, Kemet has placed an order stop on some specific parts.

Vishay's Tantalum Capacitors are backlogged but are managed on a first-come, first-serve basis within AP. Lead times in the previous months were stable.

Epcos normal Film Capacitors see 16 - 20 weeks lead times in AP. High Power Film Capacitors are still at 26 weeks in comparison.

Epcos Aluminum Capacitors face lead times of 12 - 16 weeks in AP. TDK announced an allocation for Snap In Capacitors for EU clients.

Nichicon canceled all customer quotes in the EU for Aluminum Capacitors. Its case sizes 6.3x7.7, 8x10, and 10x10 will see the AP market's price and lead times rising.

Panasonic reports shipping delays in the EU from high seaport congestion will affect its Aluminum Capacitor deliveries.

Bourns will be increasing prices on its Transformers in May. Bourns also announced its lead times in the EU for Inductors, Chokes, and Coils to be stable, but no indication of how the next three months will be.

Vishay announced shortened lead times and prices decreasing on its Inductors, Chokes, Coils, and Film Capacitors.

Epcos increased prices by 10% in the EU, with the price rising in SSP for EMI Filters, Ferrites, Transformers, Inductors, Chokes, and Coils.

EMI Filters saw Schaffner increase prices on most Netto Quotes.



Passives

		LEAD	TIME	PRICE	
TECHNOLOGY	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Panasonic	50 - 60 weeks	Stable -	Stable -	EU: still long lead times
Resistors Standard Chip	Vishay	22 - 56 weeks	Stable -	Up ▲	EU: Allocation for CRCW
(SMD)	Yageo	12 - 28 weeks	Stable -	Stable -	
	Walsin	16 - 25 weeks	Stable -	Stable -	EU: price decrease on Walsin /Kamaya Automtive grade SMD Resistors
	Bourns	15 - 26 weeks	Stable -	Up ▲	Cost increase effective May'23.
Resistors	Vishay	30 - 50 weeks	Stable -	Stable -	EU: Obsolete
Networks & Arrays	Yageo	16 - 28 weeks	Stable -	Stable -	
	Walsin	15 - 24 weeks	Stable -	Stable -	
	Epcos	18 - 30 weeks	Stable -	Up ▲	EU: price increase due to increase in raw material and logistic cost
Non-Linear Resistors Thermistors	Murata	20 - 24 weeks	Stable -	Stable -	
	Vishay	20 - 30 weeks	Stable -	Up ▲	EU: price increase due to increase in raw material and logistic cost
	Bourns	20 - 44 weeks	Up ▲	Up ▲	Cost increase effective May'23. EU: Lack of raw material (supply of Ceramics) for Trimpot
Trimmers & Potentiometers	TT Electronics	20 - 44 weeks	Stable -	Stable -	
	Vishay	22 - 60 weeks	Stable -	Up ▲	EU: No SSP pricing for Sfernice Potis
	AVX	17 - 30 weeks	Stable -	Stable -	
Over-Voltage	Bourns	16 - 40 weeks	Stable -	Up ▲	Cost increase effective May'23.
Protection Varistors	Littelfuse	20 - 40 weeks	Up ▲	Up ▲	EU: April price increase due to increase in raw material and logistic cost, overall average 8%
	Epcos	20 - 30 weeks	Stable -	Up ▲	EU: price increase due to increase in raw material and logistic cost
Over-Voltage Protection Thyristors & TVS Diodes	AVX	10 - 50 weeks	Stable -	Stable -	AP: Radial Varistor LT 22WKS
	Bourns	14 - 54 weeks	Stable -	Up ▲	Cost increase effective May'23.
	Littelfuse	15 - 40 weeks	Stable -	Stable -	APAC price increase due to increase in raw material and logistic cost; EU: April price increase due to increase in raw material and logistic cost, overall average 8%



Passives

	SUPPLIER	LEAD	TIME	PRICE	
TECHNOLOGY		CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Bourns	16 - 20 weeks	Stable -	Up ▲	Cost increase effective May'23.
Over-Current Protection Fuses	Littelfuse	15 - 30 weeks	Stable -	Stable -	EU: April price increase due to increase in raw material and logistic cost, overall average 8%
	Schurter	15 - 35 weeks	Stable -	Stable -	
	Abracon	30 - 99 weeks	Up ▲	Up ▲	APAC: MEMS oscillator is still on allocation
	Kyocera	14 - 35 weeks	Up ▲	Stable -	
Frequency Control Crystals & Oscillators	ESC	30 - 52 weeks	Up ▲	Up ▲	
	IQD	30 - 35 weeks	Up ▲	Stable -	
	TXC	18 - 52 weeks	Stable -	Stable -	
	Abracon	9 - 30 weeks	Stable -	Stable -	
Frequency Control Resonators	Geyer	9 - 16 weeks	Stable -	Stable -	
	Murata	9 - 24 weeks	Stable -	Stable -	
Frequency Control	Abracon	24 - 50 weeks	Stable -	Stable -	
Trequency Control	Murata	16 - 24 weeks	Stable -	Stable -	
	AVX	14 - 30 weeks	Stable -	Up ▲	
Capacitors Ceramic	Kemet	20 - 38 weeks	Up ▲	Up ▲	MLCC automotive grade incread the LT; EU: order stop on specific parts
Multilayer (MLCC)	Murata	15 - 22 weeks	Stable -	Stable -	
	Samsung EM	18 - 22 weeks	Up ▲	Stable -	
	AVX	12 - 36 weeks	Up ▲	Stable -	
	Kemet	16 - 36 weeks	Stable -	Stable -	
Capacitors Tantalum	Samsung EM	25 - 27 weeks	Stable -	Stable -	
	Vishay	18 - 42 weeks	Stable -	Stable -	AP: Backlog being managed on first come, first serve basis. Lead time prev month stable in Asia.
	Epcos	26 - 70 weeks	Stable -	Stable -	AP: LT's 16-20wks for normal FILM. High Power Film still 26wks,
	Kemet	26 - 35 weeks	Stable -	Stable -	
Capacitors Film	Vishay	18 - 24 weeks	Up ▲	Down ▼	Shorten L/T and will price down
	Wima	14 - 20 weeks	Stable -	Stable -	



Passives

		LEAD	TIME	PRICE	
TECHNOLOGY	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Epcos	40 - 44 weeks	Stable -	Up ▲	Allocation for Snap In Capacitors
Capacitors	Nichicon	56 - 60 weeks	Down ▼	Stable -	All customer quotes cancelled
Aluminium	Panasonic	46 - 50 weeks	Stable -	Up ▲	Hybrid up to 58 weeks
	Vishay	22 - 26 weeks	Stable -	Stable -	
	Abracon	12 - 24 weeks	Stable -	Stable -	
	Bourns	22 - 28 weeks	Stable -	Stable -	EU: LT stable, on some lines down, Price Future trend next 3 months - no input
	Eaton	15 - 20 weeks	Stable -	Stable -	
Inductors Chokes Coils	Epcos/TDK	48 - 52 weeks	Up ▲	Up ▲	EU: Price increased, Prices increased in SSP
	Murata	18 - 25 weeks	Stable -	Stable -	
	Pulse	16 - 22 weeks	Stable -	Stable -	
	Vishay	18 - 22 weeks	Stable -	Down ▼	Shorten L/T and will price down
	Bourns	22 - 26 weeks	Stable -	Up ▲	Cost increase effective May'23.
Transformers	Epcos	12 - 30 weeks	Stable -	Up ▲	EU: Price increased, Price increased in SSP
	Pulse	16 - 22 weeks	Stable -	Stable -	
Ferrites	Epcos	30 - 50 weeks	Stable -	Up ▲	EU: Price increased around 10%, Price increased in SSP
remies	Ferroxcube	8 - 20 weeks	Stable -	Up ▲	
Filters (EMI)	Abracon	10 - 14 weeks	Stable -	Stable -	
	Epcos	15 - 30 weeks	Stable -	Up ▲	EU: Price increased around 10%, Price increased in SSP
	Schaffner	14 - 20 weeks	Stable -	Up ▲	EU: Price increased in most of Netto Quotes
	TE Connectivity	20 - 22 weeks	Up ▲	Up ▲	



Connectors

Future Lead Times	Mostly Stable (through June)
Price	Mostly Stable

Lead time and price stabilization continue to gain traction after months of upward trends. Some manufacturers continue to see rising lead times in some global markets. The average lead time for connectors across manufacturers is 14 - 20 weeks.

TE Connectivity and Molex raised prices on all connector products beginning in January.

3M reports lead times as stable in the US for Headers/Stiks, IDC, DIN, PCM, Mod Jack, and Gang Jack products but higher than usual. EMEA is experiencing longer than normal lead times with expected increases.

FCI's Headers/Stiks, IDC, DIN, PCB, Mod Jack, and Gang Jack products suffer from raw material shortages. EMEA will see a price increase on products by FCI in the future.

Samtec's Headers/Stiks, IDC, DIN, PCB, Mod Jack, and Gang Jack products are witnessing stable lead times but are still higher than usual. EMEA will see a price increase on products in the future.

Amphenol TCS High Speed Board to Board, High Speed I/O will see no significant change in their current 18 - 24 weeks lead time. FCI and Samtec report stable lead times but are still higher than usual.

FCI and Samtec continue to see stable lead times higher than usual for their I/O, D-Sub, and Power connectors. There will be a price increase for EMEA. ITT Cannon reports higher than usual lead times with costs set to increase.

FCI's PLCC, SIMM, and DIMM products have stable lead times but are higher than usual.

Amphenol and Phoenix report EMEA price increases on their Terminal Blocks, Circular Industrial, and Ethernet products.

Amphenol RF increased prices for RF Connectors in January.



Connectors

TECHNOLOGY	SUPPLIER	LEAD	TIME	PRICE	
		CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	зм	14 - 22 weeks	Stable -	Stable -	Lead times stable in US but still higher than normal. EMEA experiencing longer lead times and expecting increase to LT
	FCI	18 - 24 weeks	Stable -	Stable -	Raw material shortages still an issue. EMEA expecting price increases in future.
Headers/Stiks, IDC, DIN, PCB, Mod Jack, Gang Jack	Molex	16 - 26 weeks	Down ▼	Stable -	Cost increases 1/1/23
·	Samtec	10 - 12 weeks	Stable -	Stable -	Lead times stable but still higher than normal. EMEA expecting price increase in future.
	TE Connectivity	14 - 18 weeks	Stable -	Up ▲	Cost increases 1/1/23
	Amphenol TCS	18 - 24 weeks	Stable -	Stable -	No significant change in current L/T
	FCI	18 - 22 weeks	Down ▼	Stable -	Lead times stable but still higher than normal.
High Speed Board to Board, High Speed I/O	Molex	18 - 23 weeks	Stable -	Stable -	Cost increases 1/1/23
	Samtec	10 - 12 weeks	Stable -	Stable -	Lead times stable but still higher than normal.
	TE Connectivity	18 - 20 weeks	Stable -	Stable -	Cost increases 1/1/23
	FCI	12 - 20 weeks	Stable -	Stable -	Lead times continue to be higher than normal. EMEA experiencing longer lead times and expecting future price increase.
I/O, D-Sub,Power	ITT Cannon	20 - 28 weeks	Stable -	Stable -	Stable but still higher than normal. Cost increasing
i/O, D-Sub,Fowei	Molex	15 - 23 weeks	Stable -	Stable -	Cost increases 1/1/23
	Samtec	10 - 12 weeks	Stable -	Stable -	Lead times stable but still higher than normal. EMEA expecting price increase.
	FCI	12 - 14 weeks	Stable -	Stable -	Lead times continue to be higher than normal.
PLCC, SIMM, DIMM	Molex	15 - 23 weeks	Stable -	Stable -	Cost increases 1/1/23
	TE Connectivity	13 - 15 weeks	Stable -	Up ▲	Cost increases 1/1/23
	Amphenol	18 - 22 weeks	Stable -	Stable -	Lead times stable but continue to be higher than normal. EMEA expecting future price increase.
Terminal Blocks, Circular Industrial,	Molex	16 - 22 weeks	Stable -	Stable -	
Circular Industrial, Ethernet	Phoenix	8 - 20 weeks	Stable -	Stable -	EMEA expecting price increase in future
	TE Connectivity	12 - 20 weeks	Stable -	Up ▲	Lead times continue to be higher than normal
	Amphenol RF	14 - 20 weeks	Stable -	Up ▲	Cost increases 1/1/23
RF Connectors	Molex	16 - 22 weeks	Down ▼	Stable -	Cost increases 1/1/23
	TE Connectivity	14 - 18 weeks	Stable -	Up ▲	Cost increases 1/1/23



Military & Industrial Connector

Future Lead Times	Mostly Stable (through June)
Price	Going Up

Lead time stabilization is coming for manufacturers on some product lines, but prices will increase. The average lead time for military and industrial connectors across manufacturers is 1 - 22 weeks.

Deutsch is de-emphasizing its Mil-DTL 38999 Srs 1 products through a significant price increase strategy. Experts say to utilize Amphenol and Corsair's products instead.

TE/Deutsch's mid to large shell size composite D38999 Series III qualified product family (/20, /24, and /26) remain on formal TE ship hold. All qualified Series III Hermetic receptacles (/21, /23, /25, and /27) remain on DLA-issued formal ship hold. Deutsch is de-emphasizing this series through a significant price increase strategy.

TE/Deutsch's Series 4 of Mil-DTL38999 are on a marketing block. Size 16 is facing contact issues.

AERO/Conesys Mil-DTL 26482 Srs 2 is available through AEP.

Deutsch is de-emphasizing its Mil-DTL 26482 Srs 2 products through a significant price increase strategy.

TECHNOLOGY	SUPPLIER	LEAD TIME		PRICE	
		CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Amphenol Aerospace	1 - 18 weeks	Stable -	Up ▲	
Mil-DTL 38999 Srs 1	Corsair	1 - 18 weeks	Stable -	Up ▲	
	Deutsch	0 - 0 weeks	Up ▲	Up ▲	Deutsch has de-emphasized this series through a significant price increase strategy. Utilize Amphenol and Corsair.
Mil-DTL 38999 Srs 2	Amphenol Aerospace	1 - 18 weeks	Stable -	Up ▲	
	Amphenol Aerospace	1 - 18 weeks	Stable -	Up ▲	
Mil-DTL 38999 Srs 3	Corsair	1 - 18 weeks	Stable -	Up ▲	
	Deutsch	0 - 0 weeks	Up ▲	Up ▲	TE/Deutsch mid to large shell size composite D38999 Series III qualified product family (/26, /24, and /26) on formal TE ship hold. All TE/Deutsch qualified Series III Hermetic receptacles (/21, /23, /25, &/27) on DLA issued formal ship hold. Deutsch de-emphasized this series through a significant price increase strategy.
	Deutsch	0 - 0 weeks	Stable -	Up ▲	TE/Deutsch Series 4 on Marketing block. Size 16 contact issue.
Mil-DTL 38999 Srs 4	Glenair	2 - 5 weeks	Stable -	Up ▲	



Military & Industrial Connector

		LEAD TIME		PRICE	
TECHNOLOGY	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Amphenol Aerospace	4 - 18 weeks	Stable -	Up ▲	
High Density 38999	Glenair	2 - 5 weeks	Stable -	Up ▲	
	ITT Cannon	18 - 20 weeks	Stable -	Up ▲	
	Amphenol Industrial	4 - 16 weeks	Stable -	Up ▲	
Mil-DTL 26482 Srs 1	ITT Cannon	16 - 18 weeks	Stable -	Up ▲	
	Souriau	4 - 20 weeks	Stable -	Up ▲	
	Amphenol Aerospace	4 - 18 weeks	Stable -	Up ▲	
MURTI COMO C	AERO/Conesys	4 - 20 weeks	Stable -	Up ▲	Thru AEP
Mil-DTL 26482 Srs 2	Corsair	4 - 18 weeks			
	Deutsch	0 - 0 weeks	Up ▲	Up ▲	Deutsch has de-emphasized this series through a significant price increase strategy
	Amphenol Industrial	1 - 16 weeks	Stable -	Up ▲	
Mil-DTL 5015 A&B	ITT Cannon	14 - 16 weeks	Stable -	Up ▲	
Mil-DTL 5015 E, F, R	Amphenol Industrial	1 - 18 weeks	Stable -	Up ▲	
WIII-DTE 3013 E, 1 , IX	ITT Cannon	14 - 16 weeks	Stable -	Up ▲	
	Cinch	18 - 20 weeks	Stable -	Up ▲	
Micros Mil-DTL 83513	Glenair	2 - 5 weeks	Stable -	Up ▲	
MICROS MIII-DIL 83513	ITT Cannon	20 - 24 weeks	Stable -	Up ▲	
	Amphenol CANADA	16 - 18 weeks	Stable -	Up ▲	
	Cinch	1 - 18 weeks	Up ▲	Up ▲	
Mil-DTL-24308	ITT Cannon	1 - 20 weeks	Down ▼	Up ▲	
	TE Connectivity	1 - 24 weeks	Down ▼	Up ▲	
	Amphenol Aerospace	14 - 18 weeks	Stable -	Up ▲	
Board Level - Ruggedized	Amphenol PCD	12 - 14 weeks	Up ▲	Up ▲	
	TE Connectivity	18 - 24 weeks	Stable -	Up ▲	



Electro-Mechanical

Future Lead Times	Mix of Going Up and Stable (through June)
Price	Mix of Going Up and Stable

Prices will see further stability over the coming quarter while lead times are set to increase for many manufacturers. The average lead time for emech across manufacturers is 18 - 31 weeks.

Fujitsu's FTR-, VE-, FN-, and JS series power relays and Signal Relay series FTR-B4 are still on allocation. Omron has placed its G5 and G6 relays on allocation.

Omron's NA warehouse is adding 6 weeks to lead times for its Power Relays, Signal & Telecom Relays, Safety Relays, Automotive Relays, and Microswitch/ SNAP switch products.

Omron has announced their B3S series switches are on allocation.

PEW's HES Relay and TE Connectivity's RT & RZ Relays are on allocation in Europe.

Knitter-Switch's Pushbutton and Slide Switches are not currently franchised in North America.

Fischer's Heatsinks remain stable at 4 - 12 weeks but are not franchised in North America.

TE Connectivity's Alco Switches are in EOL.

TECHNOLOGY		LEAD	TIME	PRICE	
	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Fujitsu	26 -34 weeks	Stable -	Stable -	FTR-, VE-, FN- & JS series on allocation
Power Relays	Omron	26 - 40 weeks	Up ▲	Up ▲	NA: Omron's new North American warehouse is adding 6 weeks to leadtimes. G5 & G6 relays on allocation
1 ollo: Nolayo	PEW	25 - 60 weeks	Up 🛋	Stable -	HES Relay on allocation in Europe
	TE Connectivity	22 - 28 weeks	Stable -	Stable -	Allocation on RT & RZ Relays in Europe
	Fujitsu	30 - 60 weeks	Stable -	Stable -	Signal Relay series FTR-B4 on allocation
Signal- & Telecom	Omron	18 - 34 weeks	Stable -	Up ▲	NA: Omron's new North American warehouse is adding 6 weeks to leadtimes
Relays	PEW	20 - 40 weeks	Up ▲	Up ▲	
	TE Connectivity	26 - 40 weeks	Stable -	Stable -	

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Electro-Mechanical

		LEAD	LEAD TIME PRICE		
TECHNOLOGY	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Crydom	10 - 24 weeks	Up ▲	Stable -	Not franchised in NA
Solid State Relays (incl Reed- & IO Modules)	PEW	8 - 36 weeks	Up ▲	Stable -	
	TE Connectivity	12 - 22 weeks	Up ▲	Stable -	
Time Delay Relays	Littelfuse	16 - 22 weeks	Stable -	Stable -	
(Industry Relays)	TE Connectivity	22 - 24 weeks	Stable -	Stable -	
	Fujitsu	24 - 34 weeks	Up ▲	Stable -	
0 () D	Omron	20 - 28 weeks	Stable -	Stable -	NA: Omron's new North American warehouse is adding 6 weeks to leadtimes
Safety Relays	PEW	30 - 45 weeks	Up ▲	Stable -	
	TE Connectivity	20 - 30 weeks	Stable -	Stable -	
	Omron	22 - 30 weeks	Up ▲	Up ▲	NA: Omron's new North American warehouse is adding 6 weeks to leadtimes
Automotive Relays	PEW	20 - 36 weeks	Up ▲	Stable -	
	TE Connectivity	20 - 30 weeks	Up ▲	Stable -	
	C&K	18 - 24 weeks	Stable -	Stable -	
Durchhadter Caritahaa	Honeywell	20 - 28 weeks	Stable -	Up ▲	
Pushbutton Switches	Knitter-Switch	8 - 22 weeks	Up ▲	Stable -	Not franchised in NA
	NKK	14 - 22 weeks	Stable -	Stable -	
	C&K	18 - 24 weeks	Stable -	Stable -	
	Knitter-Switch	10 - 18 weeks	Up ▲	Stable -	Not franchised in NA
Slide Switches	NKK	14 - 22 weeks	Stable -	Stable -	
	TE Connectivity	10 - 18 weeks	Stable -	Stable -	EOL on Alco Switches
	C&K	18 - 24 weeks	Stable -	Stable -	
Tactile Switches	Knitter-Switch	12 - 20 weeks	Up ▲	Stable -	Not franchised in NA
	Omron	18 - 24 weeks	Stable -	Up ▲	B3S on allocation



Electro-Mechanical

		LEAD	TIME	PRICE	
TECHNOLOGY	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	C&K	18 - 24 weeks	Up ▲	Stable -	
Microswitch / SNAP Switches	Honeywell	14 - 28 weeks	Up ▲	Up ▲	
	Omron	22 - 60 weeks	Up ▲	Up ▲	NA: Omron's new North American warehouse is adding 6 weeks to leadtimes. B3S series switches on allocation
Heatsinks	Aavid	18 - 20 weeks	Up ▲	Up ▲	
rieatsiiks	Fischer	4 - 12 weeks	Stable -	Stable -	Not franchised in NA
Fans	EBM Papst	14 - 36 weeks	Up 🔺	Stable -	



Power Products

Future Lead Times	Mostly Stable (through June)
Price	Mostly Going Up

Due to constrained supplies and transportation delays, prices are expected to increase. Lead times vary depending on the manufacturer; some see stabilization, while others expect lead times to increase. The average lead time for storage across manufacturers is 44 - 61 weeks.

Low Power Switches by Artesyn, Bel Power (Power One) TDK/Lambda, EOS Power, and Meanwell will face constrained components and transportation delays that will continue to impact lead times and deliveries.

Mid/High Power Switches and Rectifiers by Artesyn, Bel Power (Power One), TDK/Lambda, and ABB (GE Energy) will face constrained components and transportation delays that will continue to impact lead times and deliveries.

Mid & High Power Integration products by Artesyn, Excelsys, and Bel Power (Power One) will face constrained components and transportation delays that will continue to impact lead times and deliveries.

DC/DC & POLs products by ABB (GE Energy), Murata Power, Bel Power (Power One), Delta, Recom, TDK/Lambda, Traco Power, and VICOR will face constrained components and transportation delays that will continue to impact lead times and deliveries.

External products by Artesyn and EOS power will face constrained components and transportation delays that will continue to impact lead times and deliveries.

Recom is going to increase prices by 6% on all Products Linecard.



Power Products

		LEAD TIME		PRICE	
TECHNOLOGY	SUPPLIER	CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS
	Artesyn	36 - 60 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
	Bel Power (Power One)	60 - 70 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
Low Power Switchers	TDK/Lambda	40 - 105 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
	EOS Power	60 - 64 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
	Meanwell	28 - 34 weeks	Stable -	Stable -	Constrained components and transportation delays continue to impact leadtimes and deliveries
	Artesyn	36 - 60 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
Mid/High Power	Bel Power (Power One)	60 - 70 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
Switchers & Rectifiers	TDK/Lambda	52 - 105 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
	ABB (GE Energy)	60 - 70 weeks	Up ▲	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
	Artesyn	36 - 60 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
Mid & High Power Integration	Excelsys	53 - 60 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
	Bel Power (Power One)	60 - 70 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
	ABB (GE Energy)	60 - 70 weeks	Up ▲	Up 🔺	Constrained components and transportation delays continue to impact leadtimes and deliveries
	Murata Power	52 - 56 weeks	Up ▲	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
	Bel Power (Power One)	46 - 70 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
D0/D0 8 D01 -	Delta	40 - 52 weeks	Up ▲	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
DC/DC & POLs	Recom	38 - 44 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
	TDK/Lambda	52 - 105 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
	Traco Power	30 - 36 weeks	Up ▲	Stable -	Constrained components and transportation delays continue to impact leadtimes and deliveries
	VICOR	36 - 44 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
External	Artesyn	52 - 60 weeks	Down ▼	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
	EOS Power	42 - 46 weeks	Stable -	Up ▲	Constrained components and transportation delays continue to impact leadtimes and deliveries
PSU Module	Moons	12 - 24 weeks	Up ▲	Up ▲	
F30 Widdule	Recom	26 - 28 weeks	Up ▲	Up ▲	6% price increase on all Products Linecard



Thermal Management

Future Lead Times	Mostly Stable (through June)
Price	Going Up

Lead time and price are varied, with prices expected to increase over the coming weeks due to shortages and logistics challenges. Lead times vary, with stabilization affecting some manufacturers and rising lead times expected for others. The average lead time for thermal management across manufacturers is 37 - 55 weeks.

DC Fans and Blowers produced by ADDA, Delta, EBM, NMB, and Sanyo Denki are all facing component shortages and transportation challenges that will continue to impact lead times.

AC Fans and Blowers produced by EBM, NMB, and Sanyo Denki are facing component shortages and transportation challenges that will continue to impact lead times.

Heatsinks and Fansinks will remain stable at 8 - 12 weeks, but face increased prices in the coming weeks.

TECHNOLOGY	SUPPLIER	LEAD TIME		PRICE		
		CURRENT	FUTURE TREND (NEXT 3 MONTHS)	FUTURE TREND (NEXT 3 MONTHS)	COMMENTS	
	ADDA	26 - 34 weeks	Stable -	Up ▲	Component shortages and transportation challenges continue to impact leadtimes	
	Delta	40 - 60 weeks	Stable -	Up ▲	Component shortages and transportation challenges continue to impact leadtimes	
DC Fans and Blowers	EBM	50 - ## weeks	Up ▲	Up ▲	Component shortages and transportation challenges continue to impact leadtimes	
	NMB	37 - 52 weeks	Stable -	Up ▲	Component shortages and transportation challenges continue to impact leadtimes	
	Sanyo Denki	55 - 66 weeks	Stable -	Up ▲	Component shortages and transportation challenges continue to impact leadtimes	
	EBM	50 - ## weeks	Up ▲	Up ▲	Component shortages and transportation challenges continue to impact leadtimes	
AC Fans and Blowers	NMB	37 - 52 weeks	Stable -	Up ▲	Component shortages and transportation challenges continue to impact leadtimes	
	Sanyo Denki	55 - 66 weeks	Stable -	Up ▲	Component shortages and transportation challenges continue to impact leadtimes	
Heatsinks and Fansinks	AAVID	8 - 12 weeks	Stable -	Up ▲		
	ATS	8 - 12 weeks	Stable -	Up ▲		