

MONTHLY MARKET UPDATE

APRIL 2022

MEMORY

DISCRETES

PASSIVES

CONNECTORS

LOGIC

MICROCONTROLLERS

ANALOG

- Overall passive components demand from customer and market is not strong. Most manufacturers allocated more production capacity to automotive grade products.
- Shipment from East China area in Shanghai will be delayed due to COVID lock down situation.
- Market is still on demand for MOSFET and Diodes.
- Raw materials and the [cost of source metals](#) is rising.

MEMORY

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Micron	DDR3, MT41 series	Decreasing	26 weeks or above	
	DDR4, MT40 series	Increasing	26 weeks or above	
	eMMC	Down trend	26 weeks or above	
	NOR Flash, MT25 series	Unstable	26 weeks or above	
	NOR Flash, MT25 series	Unstable	26 weeks or above	
ISSI	DRAM, IS4 series	Stable	20-30 weeks or above	
	NOR Flash, IS25 series	Stable	24-26 weeks or above	
	SRAM, IS62 series	Stable	24-26 weeks or above	
Cypress	FRAM, FM24xxx/ FM25xxx series	Increasing	26-52 weeks or above	On allocation, price might change upon shipment. Lead time orders might not have confirmation date. Market running low inventory.
Winbond	NOR Flash, W25 series	Increasing	8-12 weeks or above	

DISCRETES

Manufacturer	Part/Series	Pricing	Lead Time	Notes
onsemi	PMIC, NCVxxx series	Increasing	35-80 weeks or above	Demand increasing due to electric vehicle applications. Certain MPN are more than 100 weeks lead time.
	PMICs, NCPxxx series	Increasing	40-80 weeks or above	Demand increasing due to electric vehicle applications.
	Zener diode, SZxxx series	Increasing	40-80 weeks or above	
	Rectifiers, BASxxx, MMBxxx series	Increasing	40-60 weeks or above	
	MOSFET, BSSxxx series	Increasing	30-42 weeks or above	Certain MPN are more than 80 weeks lead time.
	MOSFET, NTDxxx series	Increasing	48-56 weeks or above	Certain MPN are more than 100 weeks lead time. Demand increase due to EV application.
	MOSFET, FDxxx series	Increasing	40-85 weeks or above	Certain MPN are more than 100 weeks lead time.
	MOSFET, 2Nxxx series	Increasing	40-78 weeks or above	
Infineon	MOSFET, BSSxxx/ BSCxxx/ BSZxxx series	Increasing	52 weeks or above	
	MOSFET, IRFxxx series	Stable	30 weeks or above	
	IGBT, IKxxx series	Increasing	52-80 weeks or above	
	MOSFET, IPWxxx series	Increasing	52-60 weeks or above	
	PMIC, TLE9262/9263	Stable	50 weeks or above	Stock availability subjected to allocation
	PMIC, BSP742/752	Increasing	52-90 weeks or above	
	PMIC, BTSxxx/BTTxxx series	Stable	50 weeks or above	Stock availability subjected to allocation
Nexperia	TVS, PESDxxx series	Increasing	52 weeks or above	Lead time unstable. Auto grade might have longer lead time.
	MOSFET, BUKxxx/ PMPBxxx series	Increasing	72-98 weeks or above	Auto grade devices have longer lead times. Market price volatile.
	MOSFET, PSMNxxx series	Increasing	52 weeks or above	Lead time unstable. Auto grade might have longer lead time.
	Zener Diode, BZXxxx/ PDZxxx series	Increasing	52 weeks or above	
	Rectifier, BASxxx series	Increasing	52 weeks or above	Lead time unstable.

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DISCRETES - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Diodes Inc.	MOSFET, BSSxxx/ DMCxxx/ DMGxxx series	Increasing	47-70 weeks or above	Lead time unstable. Most of the production capacity is allocated for automotive and power management products.
	TVS Diodes, SMxxx series	Increasing	40-52 weeks or above	
	Rectifier, BATxxx/ SBRxxx series	Increasing	44-0 weeks or 75above	
	Bipolar Transistors – BJT, MMxxx series	Increasing	45-60 weeks or above	
	Bipolar Transistors - BJT, MMxxx series		45-60 weeks or above	
Vishay	Low Voltage MOSFET, SIR/SIRA series	Increasing	30-90 weeks or above	Market lack of stock, some MPN lead time is over 100 weeks.
	Opto-couplers, SFHxxx series	Increasing	45-90 weeks or above	Lead time remains long.
	MOSFET, SUDxxx series	Increasing	52-90 weeks or above	
	MOSFET, Slxxx series	Increasing	45 weeks or above	Lead time order is not able to have a confirm date.
STMicroelectronics	Low Voltage MOSFET, SIR/SIRA series	Increasing	30-90 weeks or above	Market lack of stock, some MPN lead time is over 100 weeks.

PASSIVES

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Murata	Inductor and thermistor	Stable	20 weeks or above	
	Ferrite Beads, BLM series	Increasing	30 weeks or above	Demand increasing and on allocation.
	Automotive MLCC	Increasing	12 weeks or above	Production capacity increased.
KEMET	Aluminum Electrolytic Capacitors	Increasing	24 weeks or above	Capacity issue due to China production site lockdown.
	Tantalum Capacitor, T520 series	Increasing	40 weeks or above	On allocation. Capacity issue due to China production site lockdown.
	Tantalum Capacitor, T49 series, size B, C, D	Increasing	24 weeks or above	Lead time for size A is around 12 weeks. Capacity issue due to lockdown.
Nichicon	Aluminum Electrolytic Capacitors	Increase 10%	Stable	Increase due to raw material and backend cost increased.

ELECTROMECHANICAL / CONNECTORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
TE Connectivity	Wire-to-board connector, Dynamic series	Increasing	20-35 weeks or above	Raw material shortage with high demand from market. Low production capacity making shortage worsen.

PROGRAMMABLE LOGIC

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Xilinx	Spartan 3, XC3S series, FPGA	High/Stable	52 weeks or above	Remains high but slightly adjust. The series still has a shortage issue with their wafer fab.
	Spartan 6, XC6S series, FPGA	Increasing	52-70 weeks or above	
	Spartan 7, XC7S series, FPGA	Increasing	52-70 weeks or above	
	Artix 7, XC7A series, FPGA	Increasing	52-70 weeks or above	
	Kintex 7, XC7K series, FPGA	Increasing	52-70 weeks or above	
Altera	Cyclone III, EP3C series, FPGA	Increasing	50-70 weeks or above	On allocation, market price keep increasing.
	Cyclone IV, EP4C series, FPGA	Increasing	50-70 weeks or above	On allocation, market price keep increasing; may not improve in 2022.
	MAX II, EPM1/ EMP2/ EPM5 series CPLD	Increasing	45-52 weeks or above	On allocation, market price keep increasing.
	Max 10, 10Mxxx series, CPLD	Increasing	50-70 weeks or above	On allocation, market price keep increasing; may not be improve until 2nd half of 22.

MICROCONTROLLERS & PROCESSORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
NXP / Freescale	S32K1XX family, FS32K142/144/146 series	Unstable	52-100 weeks or above	There are some stock released to the market but still on high demand.
	MCU Kinetis – KL, MKxxx series	Increasing	63-100 weeks or above	No improvement on lead time. Limited stock available in the market.
	MPU, i.MX 6 series, Auto grade, e.g. MCIMX6Sxxx, MCIMX6Qxxx	Increasing	52-70 weeks or above	Delivery still unstable. Pricing downtrend for certain devices.
STMicroelectronics	8-bit MCU, STM8 series	Increasing	52 weeks or above	On allocation. Price increases do not seem to affect market price.
	32-bit MCU, STM32 series	Increasing	52 weeks or above	Demand slow down. STM price increases not impacting market price.
Microchip	8-bit MCU, STM8 series	Increasing	52 weeks or above	On allocation. Price increases do not seem to affect market price.
	32-bit MCU, STM32 series	Increasing	52 weeks or above	Demand slow down. STM price increases not impacting market price.
	MCU, PIC16xxx/ PIC18xxx series	Increasing	52 weeks or above	Lead time further stretched.

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ANALOG & COMPLEX ICs

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Texas Instruments	Auto grade IC	Increasing	35-85 weeks or above	Shortage – especially for TPS series.
	Logic IC, SN74 series	Increasing	35-80 weeks or above	Production capacity decreased for this series.
	DSP, TMSxxx series	Increasing	52-80 weeks or above	Market price increase over 2X.
	PMIC, LMxxx series	Increasing	35-70 weeks or above	Shipment / backlog are further delinquent.
Analog Devices	OpAmp, OPxxx series	Increasing	52-90 weeks or above	Delivery delinquent and seeing market shortage. Spot buy price increasing.
	OpAmp, AD62xxx series	Increasing	52-90 weeks or above	
	OpAmp, AD86xxx series	Increasing	52-90 weeks or above	
	Interface, ADMxxx series	Increasing	52-90 weeks or above	
	Digital Isolators, ADUMxxx series	Increasing	52-90 weeks or above	
	ex-Linear Tech series, LTxxx series	Increasing	52-60 weeks or above	Market price better than ADI series.

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ANALOG & COMPLEX ICs - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Microchip	ex-SMSC series, e.g. LANxxx, USBxxx	Stable/High	52-80 weeks or above	Not much improvement on supply.
	ex-Micrel series, e.g. KSZxxxx, MICxxx	Stable/High	52-80 weeks or above	Not much improvement on supply, situation will not be improve in this year.
NXP / Freescale	Interface, TJAxix series	Stable	52 weeks or above	Certain parts still on long lead time.
	Interface, PCA series	Stable	52 weeks or above	Certain part sstill on long lead time.
Maxim Integrated	General	Increasing	50-90 weeks	Lead time further stretched with wafer issue.
	Real Time Clock, e.g. DS1302, DS1304, DS3231, etc.	Increasing	40-60 weeks or above	On allocation, delivery delinquent and unstable.
	Interface IC, e.g. DS2490B+, MAX13085, MAX14783, etc.	Increasing	44-56 weeks or above	On allocation, delivery delinquent and unstable.
Nexperia	Logic, 74xxx series	Stable	53-98 weeks or above	Lead time unstable. Auto grade devices might have longer lead times.
onsemi	Logic, 74xxx series	Stable	27-50 weeks or above	
Diodes, Inc.	LED Driver, ALxxx series	Increasing	50-80 weeks or above	Lead time extended.

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