

MONTHLY MARKET UPDATE

MARCH 2022

MEMORY

DISCRETES

PASSIVES

CONNECTORS

PROGRAMMABLE LOGIC

MICROCONTROLLERS

- Automotive MCU's are still high in demand
- STM32F series is on allocation due to tight production capacity; market prices are increasing
- AMD announced the completion of its acquisition of Xilinx
- NOR Flash and eMMC pricing is fluctuating

MEMORY

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Micron	DDR3, MT41 series	Increasing	26 weeks or above	
	DDR2, MT47 series	Stable		
	DDR4, MT40 series	Stable		
	eMMC	Increasing		
	NOR Flash, MT25	Unstable		
	NOR Flash, MT28	Unstable		
	NAND Flash, MT29	Unstable		
	NAND Flash, MT29			
ISSI	DRAM, IS4 series	Stable	20-32 weeks or above	
	NOR Flash, IS25 series	Stable	24-32 weeks or above	
	SRAM, IS62 series	Stable	24-26 weeks or above	Tight supply from TSMC. Impacted MPN include: IS62WV12826BLL / IS62WV25616BLL / IS62WV51216BLL.
Cypress	FRAM, FM24xxx/ FM25xxx series	Increasing	26-52 weeks or above	On allocation
Winbond	NOR Flash, W25 series	Stable	8-12 weeks or above	Mild price increase for certain MPN
Macronix	NOR Flash - MX25 series	Stable	20 weeks or above	Production capacity limited in Q2 for 256Mb or higher density
	NAND Flash - MX29 series	Stable		

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Manufacturer	Part/Series	Pricing	Lead Time	Notes
onsemi	PMIC, NCVxxx series	Increasing	35-80 weeks or above	Demand increasing.
	PMICs, NCPxxx series	Increasing	40-75 weeks or above	Demand increasing.
	Zener diode, SZxxx series	Increasing	40-80 weeks or above	
	MOSFET, BSSxxx series	Increasing	40-70 weeks or above	Certain MPN lead time extended to 80 weeks.
	Rectifiers, BASxxx, MMBxxx series	Stable	40-50 weeks or above	
	MOSFET, NTDxxx series	Increasing	50-65 weeks or above	
Infineon	MOSFET, BSSxxx/ BSCxxx/ BSZxxx series	Increasing	52-75 weeks or above	BSCxxx series, 100V on severe shortage
	MOSFET, IRFxxx series		52-72 weeks or above	
	IGBT, IKxxx series		52 weeks or above	
	MOSFET, IPWxxx series		52-60 weeks or above	
Nexperia	TVS, PESDxxx series	Increasing	53-90 weeks or above	Lead time unstable and stretching.
	MOSFET, BUKxxx/ PMPBxxx series		52-98 weeks or above	
	MOSFET, PSMNxxx series		52-98 weeks or above	
	Zener Diode, BZXxxx/ PDZxxx series		52-98 weeks or above	
	Rectifier, BASxxx series		53-90 weeks or above	
Diodes Inc.	MOSFET, BSSxxx/ DMCxxx/ DMGxxx series	Increasing	52-85 weeks or above	Lead time further stretched
	TVS Diodes, SMxxx series		40-52 weeks or above	
	Rectifier, BATxxx/ SBRxxx series		52-80 weeks or above	
	LED Driver, ALxxx series		53-70 weeks or above	
	Bipolar Transistors - BJT, MMxxx series		45-60 weeks or above	

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DISCRETES - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Vishay	Low Voltage MOSFET, SIR/SIRA series	Increasing	45-90 weeks or above	
	Opto-couplers, SFHxxx series	Increasing	34-52 weeks or above	Certain parts are over an 80 week lead time
Littlefuse	TVS Diodes, SMAJ	Stable	45-47 weeks	
	TVS Diodes, SMBJ		50-52 weeks	
	TVS Diodes, SMCJ & SMDJ series		55-57 weeks	
	Thyristors		40-45 weeks	
STMicroelectronics	MOSFET, STB/ STD/ STF series, etc	Stable	50-52 weeks or above	

PASSIVES

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Murata	Inductor and thermistor	Stable	20 weeks or above	
	Ferrite Beads, BLM series	Stable	30 weeks or above	Shortage
	High Capacitance MLCC, 106/ 107/ 476/ 226 with Cap size: 1206 /1210	Stable	24 weeks or above	Certain small size MLCC have support issues.
Samsung Electromechanics	High Cap, CL31 series, e.g. 106, 226,476	Increasing	Unstable	Shortage
Littlefuse	PTC Resettable Fuse, MINISxxx/ NANOSxxx series, etc		33-35 weeks	
	Tantalum capacitor	Stable	30 weeks	Lead time improving
TDK	Ferrite Beads & Filters	Increasing	30 weeks or above	Raw material and capacity issue. Support for ACM2012 series is difficult.

ELECTROMECHANICAL / CONNECTORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
TE Connectivity	IM Relay	Stable	52 weeks or above	Manufacturer in full capacity, hard to pull in.
Molex	General	Stable	45-55 weeks	Lead time stretching due to lack of raw material.

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ANALOG & COMPLEX ICs

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Texas Instruments	Auto grade, LED Driver ICs, TPS9 series	Increasing	50-86 weeks or above	Shortage
	Logic IC, SN74 series	Stable/High	35-80 weeks or above	
	DSP, TMSxxx series	Increasing	52-80 weeks or above	Shortage, especially for 64-pin & 100-pin package.
	PMIC, LMxxx series	Increasing	35-70 weeks or above	Shortage, certain part lead time is over 90 weeks.
Analog Devices	OpAmp, OPxxx series	Increasing	52-54 weeks or above	Delivery delinquent and seeing market shortage. Spot buy price increasing.
	OpAmp, AD62xxx series		52-57 weeks or above	
	OpAmp, AD86xxx series		52-65 weeks or above	
	Interface, ADMxxx series		52-60 weeks or above	
	Digital Isolators, ADUMxxx series		52-90 weeks or above	Lead times for certain devices is at 90 weeks or above.
	ex-Linear Tech series, LTxxx series		52-60 weeks or above	
Microchip	ex-SMSC series, e.g. LANxxx, USBxxx	Stable/High	53-85 weeks or above	
	ex-Micrel series, e.g. KSZxxxx, MICxxx	Stable/High	52-80 weeks or above	

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ANALOG & COMPLEX ICs - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
NXP / Freescale	Interface, TJAxxx series	Stable	50-70 weeks or above	Certain parts on long lead time (Over 80 weeks)
	Interface, PCA series	Stable	52 weeks or above	Certain parts still on long lead time
STMicroelectronics	IMU/MEMS, LISxxx / LSMxxx series	Stable	52-70 weeks or above	
Maxim Integrated	Real Time Clock, e.g. DS1302, DS1228, DS3231, etc.	Increasing	40-60 weeks or above	Delivery delinquent
	Interface IC, e.g. DS2490B+, MAX13085, MAX14783, etc.	Increasing	44-56 weeks or above	
Nexperia	Logic, 74xxx series	Stable	50-90 weeks or above	Lead time stretched.
onsemi	Logic, 74xxx series	Stable	30-50 weeks or above	
Diodes Inc.	LED Driver, ALxxx series	Increasing	53-70 weeks or above	Lead time further stretched

PROGRAMMABLE LOGIC

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Xilinx	Spartan 3, XC3S series, FPGA	Increasing	26-65 weeks or above	Demand increasing
	Spartan 6, XC6S series, FPGA		52-90 weeks or above	The series is still on shortage due to an issue with their wafer fab (TSMC).
	Spartan 7, XC7S series, FPGA		52-70 weeks or above	
	Artix 7, XC7A series, FPGA		52-70 weeks or above	
	Kintex 7, XC7K series, FPGA		52-70 weeks or above	
Altera	Cyclone III, EP3C series, FPGA	Increasing	47-70 weeks or above	Allocation, no shipping schedule on lead time order.
	Cyclone IV, EP4C series, FPGA		40-78 weeks or above	
	MAX II, EPM1/ EMP2/ EPM5 series CPLD		45-52 weeks or above	
	Max V, 5Mxxx series, CPLD		45-55 weeks or above	

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MICROCONTROLLERS & PROCESSORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
NXP / Freescale	S32K1XX family, FS32K142/144/146 series	Unstable		On allocation, lead time order further push out.
	Legacy MCU/ MPU, ColdFire, e.g. MCF52xxx	Increasing	52-78 weeks or above	Lead time stretched
	MCU Kinetis - KL, MKxxx series	Increasing	63-100 weeks or above	Shortage, some lead time order had been delinquent. Lead time further stretched.
	MPU/MCU, SPC series, Auto grade, e.g. SPC5606/ 5602/ 5604	Increasing	52-65 weeks or above	Shortage, lack of capacity for 1H 2022
STMicroelectronics	8-bit MCU, STM8 series	Mild increase	52 weeks or above	On allocation.
	32-bit MCU, STM32 series	Increasing	52 weeks or above	On allocation - especially for STM32F10x/ STM32F40x.
Microchip	ex-Atmel MCU, ATMEGA series	Increasing	52-70 weeks or above	Lead time further stretched.
	ex-Atmel MCU, AT91xxx series		52-65 weeks or above	
	MCU, PIC16xxx/ PIC18xxx series		52-74 weeks or above	

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