

MONTHLY MARKET UPDATE

DECEMBER 2021

MEMORY

DISCRETES

PASSIVES

CONNECTORS

PROGRAMMABLE LOGIC

MICROCONTROLLERS

- Lead time for most of the Active IC remains long. Lead time for discretes have no sign to recover.
- Expecting MLCC from Automotive, mobile, PC, TV and gaming to remain strong throughout 2022.
- TDK part on Automotive and 5G industry show shortage and capacity issues.

MEMORY

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Micron	DDR3, MT41 series	Stable	24-35 weeks or above	Supply drop, specially for COO Taiwan
	DDR4, MT40 series	Stable		
	LPDDR4, MT40 series	Stable		
	NOR Flash, MT25 series	Stable	26 weeks or above	Spot buy price is adjusting to market demand
	NOR Flash, MT28 series	Stable		
	NAND Flash, MT29 series	Stable		
ISSI	DRAM, IS4 series	Stable	26-42 weeks or above	Production tight due to foundry supply issue
	NOR Flash, IS25 series	Stable	20-40 weeks	
	SRAM, IS62 series	Increase 3%-5%	22-40 weeks or above	Wafer price increase from SMIC
Cypress	ex-Ramtron, FM24xxx/ FM25xxx series, FRAM	Increasing	32-50 weeks or above	Spot buy price increasing
Winbond	NOR Flash, W25 series	Stable	30 weeks or above	Market price dropped
Macronix	NOR Flash - MX25 series	Increasing	26-28 weeks or above	
	NAND Flash - MX29 series	Stable	26-28 weeks or above	Need to wait for allocation

DISCRETES

Manufacturer	Part/Series	Pricing	Lead Time	Notes
ON Semiconductors	PMIC, NCVxxx series	Increasing	40-80 weeks or above	Shortage, especially for automotive application
	PMICs, NCPxxx series	Increasing	35-70 weeks or above	Shortage, especially for automotive application
	Zener diode, SZxxx series	Increasing	39-52 weeks or above	Shortage, especially for automotive application
	MOSFET, BSSxxx series	Stable	26-50 weeks or above	More stock available in the market
	Rectifiers, 2Nxxx, BASxxx, MMBxxx series	Stable	26-50 weeks or above	More stock available in the market
Infineon	MOSFET, BSSxxx/ BSCxxx/ BSZxxx series	Increasing	34-70 weeks or above	Delivery delinquent
	MOSFET, IRFxxx series	Increasing	52-65 weeks	Delivery delinquent
	IGBT, IKxxx series	Increasing	24-52 weeks	
	MOSFET, IPWxxx series	Increasing	39-50 weeks or above	Delivery delinquent
Nexperia	Logic, 74xxx series	Increasing	40-69 weeks or above	On shortage
	BJT Transistor, PMSxxx series	Increasing	40 weeks or above	Certain deliveries are pushing out to 2024
	MOSFET, BUKxxx series	Increasing	40 weeks or above	Certain deliveries are pushing out to 2024
Diodes Inc.	MOSFET, BSSxxx/ DMCxxx/ DMGxxx series	Increasing	32-85 weeks or above	Shortage, lead time unstable
	TVS Diodes, SMxxx series	Increasing	32-50 weeks or above	Lead time stretched
	Rectifier, BATxxx/ SBRxxx series	Increasing	32-85 weeks or above	Shortage, lead time unstable
	Automotive parts	Increasing	50 weeks or above	Extremely shortage

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DECEMBER 2021

DISCRETES - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Littelfuse	Normal Fuse	Increasing	20-25 weeks	
	PTC Resettable Fuse, MINISxxx/ NANOSxxx series, etc	Increasing	32-34 weeks or above	
	TVS Diodes, SMAJ series	Increasing	45-47 weeks or above	Shortage
	TVS Diodes, SMBJ series	Increasing	50 weeks or above	Shortage
	TVS Diodes, SMCJ & SMDJ series	Increasing	55-57 weeks or above	Shortage
	Thyristors	Increasing	26-28 weeks or above	L01 series lead time around 60wks
	Varistors, MLA series	Increasing	70-72 weeks or above	
ST Microelectronics	MOSFET, STB/ STD/ STF series, etc.	Increasing	50-56 weeks or above	Lead time increasing, still on shortage

PASSIVES

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Murata	Standard MLCC	Stable	16-20 weeks	Automotive MLCCs are still on shortage, but lead times are improving
	Inductor and thermistor	Stable	20 weeks or above	
	Ferrite Beads, BLM series	Stable	30 weeks or above	On allocation
	High Capacitance MLCC, 106/ 107/ 476/ 226 with Cap size: 1206 /1210	Stable	24 weeks or above	Shortage
Samsung Electromechanics	High Cap, CL31 series, e.g. 106, 226	Increasing	Unstable	Tight capacity issue
Kemet	Film Capacitor	Increase 15%	36 weeks or above	
	Tantalum capacitor, T49 series	Increasing	28 weeks or above	
	Tantalum capacitor, T520 series	Unstable	40 weeks or above	Price can only confirm prior to shipment

ELECTROMECHANICAL / CONNECTORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
TE Connectivity	Terminals	Increasing 3%-10%	28-56 weeks	Lead time stretched for both industrial and automotive grade

ANALOG & COMPLEX ICs

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Texas Instruments	Power Management ICs, TPS5 / TPS8 series	Decreasing	35 weeks or above	Market price adjust low due to supply increase. Certain part like TPS53355 is still at high price range
	Logic IC, SN74 series	Increasing	35-80 weeks or above	Lead time stretched
	RF Transceiver, CC1101xxx series	Increasing	70-85 weeks or above	Lead time stretched
	PMIC, BQxxx series	Increasing	35-90 weeks or above	Lead time stretched
	PMIC, LMxxx series	Increasing	35-52 weeks or above	High demand, market stock sold out fast
Analog Devices	OpAmp, OPxxx series	Increasing	40-52 weeks or above	
	OpAmp, AD62xxx series	Increasing	52 weeks or above	
	OpAmp, AD86xxx series	Increasing	52-56 weeks or above	
	Interface, ADMxxx series	Increasing	43-53 weeks or above	
	Digital Isolators, ADUMxxx series	Increasing	52-80 weeks or above	
	ex-Linear Tech series, LTxxx series	Increasing	39-52 weeks or above	
Microchip	ex-SMSC series, e.g. LANxxx, USBxxx	Stable	48-82 weeks or above	Price trend moving down
	ex-Micrel series, e.g. KSZxxxx, MICxxx	Stable	45-75 weeks or above	Price trend moving down

ANALOG & COMPLEX ICs - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Marvell	Transceiver Interface, 88E15x series	Decreasing	52 weeks or above	More stock available in the market.
	Telecom Interface, 88E63x series	Stable	52 weeks or above	On manufacturer allocation
NXP / Freescale	Interface, TJAxix series	Decreasing	40-85 weeks or above	Tight supply on SOP8 package
	Interface, PCA series	Stable	45-52 weeks	
	PMIC, TEA series	Decreasing	52-55 weeks	
STMicroelectronics	IMU/MEMS, LISxxx / LSMxxx series	Stable	43-70 weeks or above	
	PMIC, VNHxxx series	Stable	52-54 weeks	High demand and lack of supply
Maxim Integrated	Interface, e.g. MAX17220ENT+T, MAX5531ETC+T, MAX3218EAP+T, MAX1674EUA+T, MAX1486EUB+T, MAX15104EWL+T, MAX14828ATG+T	Increasing	24-65 weeks or above	Lack of wafer and raw materials
	Ex-Dallas Series, e.g. DS24B33S+T&R, DS80C320-QCG+T&R, DS1803E-010+T&R, DS2431P+T&R, DS3231SN#TR, DS1340Z-33+T&R, DS1302ZN+TR, DS28E01P-100+T, DS2401P+TR, DS2430AP+TR, DS3231MZ+TRL	Increasing	40-60 weeks or above	Lack of wafer from Seiko/Epson fab and other raw materials
Silicon Labs	Clock, SIxxxx series	Increasing	48-60 weeks or above	Spot buy prices increasing.
Allegro	All series	Increasing	40-70 weeks or above	Still under very tight capacity

PROGRAMMABLE LOGIC

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Xilinx	Spartan 3, XC3S series, FPGA	Increasing	26-65 weeks or above	Demand increasing, on shortage
	Virtex 5, XC5V series, FPGA	Increasing	75 weeks or above	
	Spartan 6, XC6S series, FPGA	Increasing	52-90 weeks or above	Lead time is reference only. The series is on allocation due to wafer issue. Delivery schedule pushed to 2024. Limited stock available in the market.
	Spartan 7, XC7S series, FPGA	Increasing	52-78 weeks or above	Delivery schedule pushed to 2024
	Artix 7, XC7A series, FPGA	Increasing	50-70 weeks or above	Supply and lead time unstable
	Kintex 7, XC7K series, FPGA	Increasing	50-70 weeks or above	Supply and lead time unstable
Altera	Cyclone III, EP3C series, FPGA	Increasing	47-70 weeks or above	Lead time unstable and backlog ETD delinquent. Spot buy price is getting higher.
	Cyclone IV, EP4C series, FPGA	Increasing	40-78 weeks or above	On allocation. Lead time stretched and backlog ETD delinquent. Spot buy price is getting higher.
	MAX II, EPM1/ EMP2/ EPM5 series CPLD	Increasing	45-52 weeks or above	Lead time unstable and backlog ETD delinquent. Spot buy price is getting higher.
	Max V, 5Mxxx series, CPLD	Increasing	45-55 weeks or above	Lead time unstable and backlog ETD delinquent. Spot buy price is getting higher.
Lattice Semi	MachXO2, LCMXO2 series, FPGA	Increasing	40-55 weeks or above	On shortage, lead time increasing and delivery delinquent. Hard to get immediate stock.
	MachXO3, LCMXO3 series, FPGA	Increasing	30 weeks or above	Shortage

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MICROCONTROLLERS & PROCESSORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
NXP / Freescale	S32K1XX family, FS32K142/144/146 series	Decreasing	52-62 weeks or above	Price for higher density FS32K148 are keep increasing
	MPU/MCU, SPC series, e.g. SPC5606/ 5602/ 5604	Increasing	52 weeks or above	
	MPU, i.MX series	Decreasing	52 weeks	Supply stable
	MCU Kinetis - KL, MKLxxx series	Increasing	52-100 weeks or above	Shortage
ST Microelectronics	8-bit MCU, STM8 series	Decreasing	52 weeks or above	Entire series still on allocation. Price increasing for spot buy on STM8S003 series due to uptick on demand. Auto grade STM8AF series price is becoming stable.
	32-bit MCU, STM32 series	Decreasing	52 weeks or above	Whole series still on allocation. Price increasing for spot buy on STM32F0 series
Microchip	ex-Atmel MCU, ATMEGA series	Increasing	52-68 weeks or above	Lead time stretching, tight supply
	ex-Atmel MCU, AT89xxx/ AT91xxx series	Increasing	50-70 weeks or above	Lead time stretching, tight supply
	MCU, PIC16xxx/ PIC18xxx series	Increasing	35-70 weeks or above	Delinquent on delivery, schedule pushed out for 3-6 months
Silicon Labs	MCU, C8051xxx series	Increasing	24-45 weeks or above	Shortage and spot buy price keep increasing. Some delivery had been pushed out to Q3 2022.

YOUR GO-TO RESOURCE FOR SOURCING ELECTRONIC COMPONENTS

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