MONTHLY MARKET UPDATE

NOVEMBER 2021

MEMORY | DISCRETES | PASSIVES | CONNECTORS | PROGRAMMABLE LOGIC | MICROCONTROLLERS

- Lead time for most of the Active IC remains long.
- Expecting MLCC from Automotive, mobile, PC, TV and gaming to remain strong throughout the year.
- Molex production in Jiangsu and Guangdong provinces could have a significant impact due to the energy cuts in China.
- Freight cost, raw material cost, wafer cost had been increasing forced many manufacturers price increase all their product offers.
- Littelfuse factory in Kunshan also affected by energy cuts in China. Production lead time stretched per the request of reductions in power consumption capacity.
- Most of the memory pricing is fixed at the time of delivery.

MEMORY

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Micron	DDR3, MT41 series	Increase	24-35 weeks or above	DRAM is still high demand. Especially for DDR3, due to fab capacity issue.
	DDR4, MT40 series	Stable	26 weeks or above	
	LPDDR4, MT40 series	Increase	26 weeks or above	
	NOR Flash, MT25 series	Stable	28-52 weeks or above	Lead time stretched.
	NOR Flash, MT28 series	Stable	26-40 weeks or above	Spot buy price is adjusting to market demand. Lead time remains long.
ISSI	DRAM, IS4 series	Stable	26-40 weeks or above	DDR3 IS43TR series and SDRAM IS42 series still in shortage
	NOR Flash, IS25 series	Stable	40 weeks or above	
	SRAM, IS62 series	Increase 3%-5%	22-40 weeks or above	
Cypress	CY14xxx series, NvRAM	Increasing	32-42 weeks or above	Lead time extended.
	ex-Ramtron, FM24xxx/ FM25xxx series, FRAM	Increasing	30-55 weeks or above	Lead time extended and price unstable.
	ex-Spansion, S25/S29/ S70 series, Flash	Increasing	24-68 weeks or above	

MEMORY - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Winbond	NOR Flash, W25 series	Stable	22-33 weeks	Sufficient stocks in the market, especially for flash items.
Macronix	NOR Flash - MX25 series	Stable	26-28 weeks or above	
	NAND Flash - MX29 series	Stable	26-28 weeks or above	Lead time might further stretch as wafer/material shortage
Microchip	ex-Atmel series, EEPROM	Stable	40-70 weeks or above	
	EEPROM	Stable	50-70 weeks or above	

DISCRETES

Manufacturer	Part/Series	Pricing	Lead Time	Notes
ON Semiconductors	Rectifiers, BASxxx series	Increasing	46-65 weeks or above	Market price volatile, on allocation.
	MOSFET, BSSxxx series	Increasing	43-85 weeks or above	Market price volatile, on allocation.
	PMICs, NCPxxx series	Increasing	34-70 weeks or above	Market price volatile, on allocation.
	Image Sensor, ARxxx series	Increasing	35-52 weeks or above	Market price volatile, on allocation.
Infineon	MOSFET, e.g. BSSxxx/ BSCxxx/ BSZxxx series	Increasing	38-70 weeks or above	Stable supply
	IR series MOSFET, e.g. IRFxxx	Increasing	50-70 weeks or above	On demand
	IGBT, IKxxx series	Increasing	30-52 weeks or above	
	MCU, SAKxxx series	Increasing	32-40 weeks or above	
	Automotive parts	Increasing	40 weeks or above	On allocation
Vishay	ex-Siliconix MOSFET, e.g. SIxxx series	Increasing	57-98 weeks or above	Unstable delivery
	MOSFET, IRxxx series	Increasing	50-72 weeks or above	Unstable delivery
	TVS Diodes	Increasing	47-80 weeks or above	Unstable delivery
	Diodes/Rectifiers, 1Nxxx series	Increasing	57-90 weeks or above	Unstable delivery

DISCRETES - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Diodes Inc.	MOSFET, BSSxxx/ DMCxxx/ DMGxxx series	Increasing	32-85 weeks or above	Shortage, lead time unstable.
	TVS Diodes, SMxxx series	Increasing	30-40 weeks or above	Shortage, lead time unstable.
	Rectifier, BATxxx/ MMBxxx/ SBRxxx series	Increasing	34-84 weeks or above	Shortage, certain parts are up to 100 weeks and orders are delinquent.
Littelfuse	PTC Resettable Fuse, MINISxxx/ NANOSxxx series, etc	Increasing	24-40 weeks or above	Raw Material still on shortage and increase of logistic cost.
	TVS Diodes	Increasing	45-80 weeks or above	Raw Material still on shortage and increase of logistic cost.
	Thyristors & Varistors	Increasing	35-70 weeks or above	Raw Material still on shortage and increase of logistic cost.
ST Microelectronics	MOSFET, STB/ STD/ STF series, etc	Increasing	50-59 weeks or above	Lead time increasing, still on shortage

PASSIVES

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Murata	Standard MLCC	Stable	20 weeks	
	High Capacitance MLCC, 106/ 107/ 225/ 226 with Cap size: 0805/ 1206 /1210	Stable	24 weeks or above	Shortage
	Ferrite Beads, BLM series	Stable	30 weeks or above	
	Automotive MLCC	Increasing	24 weeks or above	On allocation
Samsung Electromechanics	High capacitances MLCC, 0805 226/1206 226	Stable	14-20 weeks	Shortage due to manufacturer capacity issue
Kemet	Standard MLCC	Stable	20-28 weeks	
	Tantalum capacitor, T520 series	Unstable	40 weeks or above	On allocation
	Tantalum capacitor, T49 series	Increasing	28 weeks or above	Sizes B, D, X need about 12-14 weeks longer than size A, C.

ELECTROMECHANICAL / CONNECTORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
TE Connectivity	IM Relay	Increasing	38 weeks or above	
	Automotive parts	Increasing	52 weeks or above	On allocation

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
	Logic IC, SN74 series	Increasing	35 weeks or above	
	Certain part with MFR released stock to market, e.g. TPS51200, TMS320F28034, etc	Decreasing	35 weeks or above	Market price adjust low due to supply increase
	Automotive parts	Increasing	35 weeks or above	
Analog Devices	OpAmp, OPxxx series	Increase 15%-20%	39-52 weeks or above	
	Digital Isolators, ADUMxxx series	Increase 15%-20%	38-60 weeks or above	Most parts are on allocaion with unstable delivery.
	ex-Linear Tech series, LTxxx series	Increase 15%-20%	39-52 weeks or above	Most parts are on allocaion with unstable delivery.
	ex-Linear Tech series, LTxxx series	Increase 15%-20%	26-56 weeks	
Microchip	ex-SMSC series, e.g. LAN8720A, LAN8710A, LAN91C11, USB2514B, USB3320C, USB3340	Stable	42-68 weeks or above	
	"ex-Micrel series, e.g. KSZ8041NL, KSZ8081RNBCA-TR, KSZ9031RNXCA-TR"	Stable	45-70 weeks or above	
Marvell	Transceiver Interface, 88E15x series	Stable	52 weeks or above	More stock available in the market.
	Telecom Interface, 88E63x series	Increasing	52 weeks or above	Tight supply and no improvement on lead time.

ANALOG & COMPLEX ICs - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
NXP / Freescale	Interface, TJAxxx/ UJAxxx series	Stable	52-60 weeks or above	
	Accelerometer, e.g. MMA8451 series	Stable	52 weeks or above	Going to End of life soon
STMicroelectronics	IMU/MEMS, LISxxx / LSMxxx series	Stable	28-50 weeks or above	Certain part is up to 70 weeks lead time
Maxim Integrated	Interface, e.g. MAX9916EKA+T MAX1227BCEE+T MAX6958AAEE+T MAX1556AETB+T MAX13054ESA+T MAX34406TETG MAX1843ETI+T MAX8556ETE+T MAX9944ASA+	Increasing	30 weeks or above	Lack of wafer and raw material to support. Certain part is over 60 weeks lead time. Shortage questions which will not be resolved in 2022.
	Ex-Dallas Series, e.g. DS3232SN#TR, DS3234SN#T&R, DS1302Z+TR, DS1803E-010+TR, DS24B33S+T&R, DS3232SN#TR, DS2431P+T&R	Increasing	60 weeks or above	Wafer fab severely constrained, lead time further stretched. Situation won't be resolved soon. Spot buy price keep increasing.
	MAX9979KCTK+D, MAX944CSD+T	Increased	60 weeks or above	The lack of production capacity and raw material is impacting pricing and lead time.
Broadcom	Interface / Controller, e.g. BCMxxxx	Increasing	52 weeks or above	Due to shortage of wafer, mainly for 40nm or older technology, lead time is over 12 months. Price keep increasing due to wafer fab price increase.
Renesas	MCU, R7F / R5F series	Increasing	20 weeks or above	Certain part might have longer lead time
	ex-IDT, 9DBxxx, Clock & Timing IC	Increasing	36-50 weeks or above	Certain part might over 80 weeks lead time
	ex-Intersil, ISL120xxx series, Real Time Clock	Increasing	28-52 weeks or above	
	ex-Intersil, ISL81xx/ ISL83xx series, Interface	Increasing	40-52 weeks or above	

ANALOG & COMPLEX ICs - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Cirrus Logic	Audio Purpose, CS84xxx series	Increasing	28 weeks or above	Raw material shortage issues are expected to last through the end of 2022.
	CODEC, CS42xxx /ex-Wolfson series	Increasing	28-50 weeks or above	Raw material shortage issues are expected to last through the end of 2022.
	ADC, CS55xx series	Increasing	28--40 weeks	Raw material shortage issues are expected to last through the end of 2022.
	Energy Metering IC, CS54xxx series	Increasing	28 weeks or above	Raw material shortage issues are expected to last through the end of 2022.
Silicon Labs	Clock, SIxxxx series	Increasing	25-65 weeks or above	Spot buy price change daily, limited stock available in market.
Allegro	All series	Increasing	20-40 weeks or above	Certain parts are extended to 70-80 weeks lead time. Market stock sold out fast.

PROGRAMMABLE LOGIC

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Xilinx	Spartan 3, XC3S series, FPGA	Increasing	24-52 weeks or above	All parts are facing price increase due to unstable supply.
	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.
	Spartan 7, XC7S series, FPGA	Increasing	52-78 weeks or above	All parts are facing price increases due to unstable supply.
	Artix 7, XC7A series, FPGA	Increasing	52-60 weeks or above	All parts are facing price increases due to unstable supply.
	Kintex 7, XC7K series, FPGA	Increasing	52-72 weeks or above	All parts are facing price increases due to unstable supply.
	Zynq 7000, XC7KZ series, FPGA	Increasing	52-60 weeks or above	All parts are facing price increases due to unstable supply.

PROGRAMMABLE LOGIC - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Altera	Cyclone II, EP2C series, FPGA	Increasing	38-46 weeks or above	On allocation. Lead time unstable and backlog ETD delinquent. Spot buy price is getting higher.
	Cyclone III, EP3C series, FPGA	Increasing	42-70 weeks or above	On allocation. Lead time unstable and backlog ETD delinquent. Spot buy price is getting higher.
	Cyclone IV, EP4C series, FPGA	Increasing	44-56 weeks or above	On allocation. Lead time unstable and backlog ETD delinquent. Spot buy price is getting higher.
	MAX II, EPM1/ EMP2/ EPM5 series CPLD	Increasing	47 weeks or above	On allocation. Lead time unstable and backlog ETD delinquent. Spot buy price is getting higher.
	Max V, 5Mxxx series, CPLD	Increasing	35-50 weeks or above	On allocation. Lead time unstable and backlog ETD delinquent. Spot buy price is getting higher.
	Enpirion series (e.g ENxxx)	Increasing	22-50 weeks or above	The series is going to last time buy on 18 March 2022
Lattice Semi	MachXO2, LCMXO2 series, FPGA		35-60 weeks or above	On shortage, lead time increasing and delivery delinquent. Certain part lead time up to 99 weeks. Hard to get immediate stock.
	MachXO3, LCMXO3 series, FPGA		26-46 weeks or above	On shortage, lead time increasing and unstable. Certain part lead time up to 88 weeks. Limited available stock in the market.
	ispPAC, ISPPAC-POWRxxx series, PMIC		37-50 weeks or above	On shortage, lead time increasing and unstable.
	ispMACH 4000V, LC4xxx series, CPLDs		35-45 weeks or above	On shortage, lead time increasing and unstable.
	ispMACH 4A, M4A5xxx series, CPLDs		44 weeks or above	On shortage, lead time increasing and unstable.

MICROCONTROLLERS & PROCESSORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
NXP / Freescale	Auto grade MCU, e.g. FS32K/S9S12 series	Decreasing	52-70 weeks or above	Demand drop
	MCU, LPC series	Decreasing	52-75 weeks or above	Overall demand drop, certain MPN from LPC2 series is still on price increase.
	MPU, i.MX series	Stable	52 weeks	Demand drop
	MCU Kinetis - KL, MKLxxx series	Decreasing	52 weeks or above	More stock available in the market
	MCU, MK64/ MK66 series	Increasing	52-90 weeks or above	Shortage
ST Microelectronics	8-bit MCU, STM8 series	Decreasing	44-53 weeks or above	Automotive MCU STM8A still on shortage
	32-bit MCU, STM32 series	Decreasing	52 weeks or above	Shortage parts like 405VG and 103RG is still remain at high price. MFR is still on allocaion due to production capacity issue. Automotive parts are still on shortage.
Cypress	CY8C series, CapSense/ MCU	Increasing	42-75 weeks or above	Lead time stretching.
Microchip	ex-Atmel MCU, ATMEGA series	Increasing	42-69 weeks or above	Lead time stretching.
	ex-Atmel MCU, AT89xxx/ AT91xxx series	Increasing	52-75 weeks or above	Lead time stretching.
	MCU, PIC16xxx/ PIC18xxx series	Increasing	40-65 weeks or above	Lead time stretching.
Silicon Labs	MCU, C8051xxx series	Increasing	40-52 weeks or above	Expected further price increase by end of the year.

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