MONTHLY MARKET UPDATE

AUGUST 2022

MEMORY | DISCRETES | PASSIVES | CONNECTORS | LOGIC | MICROCONTROLLERS | ANALOG

- Demand for DRAM has dropped. Expectations are that manufacturers will reduce pricing.
- Expecting market to slow for the remainder of Q3 2022.
- MCU supply is becoming stable.
- Demand is still strong for the Automotive and Industrial control market.

MEMORY

Manufacturer	Part / Series	Pricing	Lead Time	Notes
Micron	DDR3, MT41 series	Decreasing	16-26 weeks or above	Lead times are improving
	DDR4, MT40 series	Decreasing	14-26 weeks or above	Lead times have improved
	NOR Flash, MT25 series	High	26-40 weeks or above	Specific parts have increasing lead times
	NOR Flash, MT28 series	High	28-40 weeks or above	Specific parts have increasing lead times
ISSI	DRAM, IS4 series	Stable	20-32 weeks or above	Specific parts have increasing lead times
	NOR Flash, IS25 series	Stable	30-40 weeks or above	Specific parts have increasing lead times
	SRAM, IS6 series	Stable	16-28 weeks or above	Specific parts have increasing lead times
Cypress	FRAM, FM24xxx/ FM25xxx series	Decreasing	20-40 weeks or above	Stock released to the market
Winbond	NOR Flash, W25 series	Increasing	14-24 weeks or above	
Macronix	NOR Flash - MX25 series	Stable	14-20 weeks or above	
	NAND Flash - MX29 series	Increasing	14-20 weeks or above	

DISCRETES

Manufacturer	Part/Series	Pricing	Lead Time	Notes
onsemi	PMIC, NCVxxx series	Increasing	30-65 weeks or above	Certain parts have more than a 90 week lead time. Market is shortage on this series.
	PMICs, NCPxxx series	Increasing	35-70 weeks or above	Certain parts have more than a 90 week lead time. Market is shortage on this series.
	Rectifiers, BASxxx, MMBxxx series	Stable	34-60 weeks or above	Lead times are improving
	MOSFET, BSSxxx series	Decreasing	30-70 weeks or above	Lead times are improving
	MOSFET, NTDxxx series	Decreasing	35-40 weeks or above	Lead times are improving
	MOSFET, FDxxx series	Decreasing	26-54 weeks or above	Lead times are improving
	MOSFET, 2Nxxx series	Decreasing	40-60 weeks or above	Lead times are improving
Infineon	MOSFET, BSSxxx/ BSCxxx/ BSZxxx series	Increasing	52-65 weeks or above	Stock availability subjected to allocation, lead time has improved
	MOSFET, IRFxxx series	Unstable	30-52 weeks or above	
	IGBT, IKxxx series	Increasing	60 weeks or above	Lead time is unstable. Some parts have lead times over 80 weeks.
	MOSFET, IPWxxx series	Increasing	52-65 weeks or above	
	PMIC, BSP series	Increasing	43-52 weeks or above	Lead time improving
	PMIC, BTSxxx/BTTxxx series	Stable	52 weeks or above	Lead time improving
Nexperia	TVS, PESDxxx series	Stable	29-52 weeks or above	Lead time for certain parts are over 80 weeks.
	MOSFET, BUKxxx/ PMPBxxx series	Stable	30-60 weeks or above	
	MOSFET, PSMNxxx series	Stable	52 weeks or above	Lead time for certain parts are over 80 weeks.
	Zener Diode, BZXxxx/ PDZxxx series	Stable	27-52 weeks or above	
	Rectifier, BASxxx series	Stable	27-52 weeks or above	

DISCRETES - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Diodes Inc.	MOSFET, BSSxxx/ DMCxxx/ DMGxxx series	Increasing	54-70 weeks or above	Lead times are unstable. Some parts have lead times over 80 weeks.
	TVS Diodes, SMxxx series	Increasing	29-58 weeks or above	
	Rectifier, BATxxx/ SBRxxx series	Increasing	33-54 weeks or above	Lead times are unstable. Some parts have lead times over 80 weeks.
	Bipolar Transistors - BJT, MMxxx series	Increasing	42-70 weeks or above	Lead times are unstable.
Vishay	Low Voltage MOSFET, SIR/SIRA series	Increasing	74-85 weeks or above	No improvement on lead times
	Opto-couplers, SFHxxx series	Increasing	50-80 weeks or above	No improvement on lead times
	MOSFET, SUDxxx series	Increasing	59-80 weeks or above	No improvement on lead times
	MOSFET, SIxxx series	Increasing	60-85 weeks or above	No improvement on lead times
STMicroelectonics	MOSFET, STB/ STD/ STF series, etc	Stable	50-70 weeks or above	Price increasing for 100V and above, as well as 100A or above on MOSFETs

PASSIVES

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Murata	Standard MLCC	Stable	14-26 weeks	Specific parts have longer lead times.
	Inductor and thermistor	Stable	20-30 weeks or above	
	Ferrite Beads, BLM series	Increasing	23-30 weeks or above	
	Automotive MLCC	Increasing	20 weeks or above	Specific parts have longer lead times.
Samsung Electro-mechanics	Normal MLCC	Stable	22-24 weeks	Stock is available in the open market
	Automotive MLCC	Stable	22-28 weeks or above	Delivery schedule is improving
Vishay	Chip Resistor	Increasing	30-50 weeks or above	
	Potentiometers	Increasing	30-50 weeks or above	

ELECTROMECHANICAL / CONNECTORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
TE Connectivity	General Connector	Increasing	20-38 weeks	Raw material shortage and backend cost increase.
Molex	General	Stable	20-52 weeks or above	Raw material shortage and order delinquent.

PROGRAMMABLE LOGIC

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Xilinx	Spartan 3, XC3S series, FPGA	Decreasing	30-52 weeks or above	
	Spartan 6, XC6S series, FPGA	Decreasing	52 weeks or above	Demand remains high but slightly adjust. The series is still on shortage as issue with their wafer fab.
	Spartan 7, XC7S series, FPGA	High/Stable	52 weeks or above	
	Artix 7, XC7A series, FPGA	High/Stable	52 weeks or above	
	Kintex 7, XC7K series, FPGA	High/Stable	52 weeks or above	
Altera	Cyclone III, EP3C series, FPGA	Stable	46-52 weeks or above	Still on allocation. Market price is becoming stable due to more stock released to market. No improvement on lead time.
	Cyclone IV, EP4C series, FPGA	Stable	45-52 weeks or above	More inventory released to open market.
	MAX II, EPM1/ EMP2/ EPM5 series CPLD	Stable	45-52 weeks or above	Still on allocation. Market price is becoming stable due to more stock released to market. No improvement on lead time.
	Max 10, 10Mxxx series, CPLD	Stable	36-45 weeks or above	Market price is becoming stable. Lead time is improving.

MICROCONTROLLERS & PROCESSORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
NXP / Freescale	S32K1XX family, FS32K142/144/146 series	Stable/High	52-90 weeks or above	Still in high demand. Lead times for certain parts are over 100 weeks.
	MCU, MCS9/S9 series	Stable	52 weeks or above	Still seeing shortage for the S912VC12 / S912VC96 series
	MCU Kinetis - KL, MKxxx series	Increasing	52 weeks or above	No improvement on lead times due to lack of wafer. Limited stock available in the market. MK22 / MK64 is seeing a price increase.
	MPU, i.MX 6 series	Increase 10%-15%	52-60 weeks or above	Delivery is unstable.
	MCU, LPC4xxx series	Increasing		LPC series' price is dropping.
STMicroelectronics	8-bit MCU, STM8 series	Decreasing	52 weeks or above	On allocation. Market spot buy price drop due to lower demand for most of the items.
	32-bit MCU, STM32 series	Stable	45-54 weeks or above	Market spot buy price drop due to lower demand for most of the items. STM32F4 / STM32M4 series' is still in shortage and pricing is high.
Microchip	ex-Atmel MCU, ATMEGA series, e.g. ATMEGA1280-16AU, ATMEGA644PA-AU, ATMEGA88PA-MU, ATMEGA328P-MU	Stable	52 weeks or above	Tight production capacity. Market price remains high.
	ex-Atmel MCU, AT91xxx series	Stable	42-52 weeks or above	Tight production capacity. Market price remains high.
	MCU, PIC16xxx/ PIC18xxx series	Stable	52-62 weeks or above	Tight production capacity. Market price remains high.

ANALOG & COMPLEX ICs

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Texas Instruments	Logic IC, SN74 series	Decreasing	26-35 weeks or above	Demand is strong
	DSP, TMSxxx series	Stable	35 weeks or above	
	PMIC, LMxxx series	Stable	50-52 weeks or above	Certain parts have an 80 week lead time.
	Power Management ICs, TPS series	Decreasing	35 weeks or above	TPS7B series with SOP package is seeing price increase.
	OpAmp, OPA series	Increasing	35-52 weeks or above	Market shortage for OPA2320A
Analog Devices	General	Stable	52 weeks or above	Spot buy price decreased due to more inventory available in the market. Certain parts have their lead times extended to 80-90 weeks.
	OpAmp, OPxxx series	Stable/High	50 weeks or above	Lead times might are up to 70 weeks or above.
	OpAmp, AD62xxx series	Stable	26-50 weeks or above	
	OpAmp, AD86xxx series	Stable	30-50 weeks or above	Certain parts have their lead times at 70 weeks.
	Interface, ADMxxx series	Stable/High	39-54 weeks or above	Certain parts have their lead times at 90 weeks.
	Digital Isolators, ADUMxxx series	Stable/High	34-50 weeks or above	Certain parts have their lead times at 90 weeks.
	ex-Linear Tech series, LTxxx series	Stable	52 weeks or above	LT68/LT69 series' price remians high. Automotive and high-end chips remain out of stock.
Microchip	ex-SMSC series, e.g. LANxxx, USBxxx	Decreasing	52 weeks or above	Pricing and lead times are improving
	ex-Micrel series, e.g. KSZxxxx, MICxxx	Decreasing	52 weeks or above	Pricing and lead times are improving

ANALOG & COMPLEX ICs - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
NXP / Freescale	Interface, TJAxxx series	Decreasing	48-52 weeks or above	Certain parts still have long lead times
	Interface, UJAxxx series	Stable	52 weeks or above	Certain parts still have long lead times
	Interface, PCA series	Decreasing	52 weeks or above	Certain parts still have long lead times
Maxim Integrated	General	Decreasing	30-50 weeks	Delivery unstable. More stock is available from open market. Shortage parts lead times are up to 70-80 weeks
	Real Time Clock, e.g. DS1302, DS1304, DS3231, etc.	Decreasing	40-60 weeks or above	Delivery unstable. Shortage items are up to 70-80 weeks lead times.
	Interface IC, e.g. DS2490B+, MAX13085, MAX232, MAX3232, etc.	Decreasing	26-48 weeks or above	Delivery unstable. Shortage items are up to 70-80 weeks lead times.
Nexperia	Logic, 74xxx series	Stable	53-80 weeks or above	Lead times are unstable.
onsemi	Logic, 74xxx series	Stable	30-52 weeks or above	Lead times have improved.

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