

## MONTHLY MARKET UPDATE

### OCTOBER 2022

MEMORY

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LOGIC

MICROCONTROLLERS

ANALOG

- Delivery times for MOSFETs, power modules, and SiC semiconductors remain over 52 weeks.
- Demand is still strong for Automotive, Medical and Industrial control market.
- Most of the MCU supply is becoming stable. Certain industrial & automotive MCUs are having mild increase on pricing.

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electronica 2022

## MEMORY

Manufacturer	Part / Series	Pricing	Lead Time	Notes
Micron	DDR3, MT41 series	Decreasing	12-28 weeks or above	
	DDR4, MT40 series	Decreasing	28 weeks or above	
	NOR Flash, MT25 series	Decreasing	28 weeks or above	Longer lead times for density 512Mb and above.
	NOR Flash, MT28 series	Stable	28 weeks or above	
ISSI	DRAM, IS4 series	Stable	22-36 weeks or above	
	NOR Flash, IS25 series	Stable	30-40 weeks or above	
	SRAM, IS6 series	Stable	16-28 weeks or above	
Cypress	FRAM, FM24xxx/ FM25xxx series	Stable	34-40 weeks or above	
Winbond	NOR Flash, W25 series	Stable	22 weeks	
Macronix	NOR Flash - MX25 series	Stable	12-24 weeks	
	NAND Flash - MX29 series	Stable	16-20 weeks	

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## DISCRETES

Manufacturer	Part/Series	Pricing	Lead Time	Notes
onsemi	PMIC, NCVxxx series	Increasing	40-70 weeks or above	Certain parts have more than a 90-week lead time. The market is short on automotive-grade devices.
	MOSFETs, NVMxxx series	Increasing	40-55 weeks or above	Certain parts have more than a 90-week lead time.
	Rectifiers, BASxxx, MMBxxx series	Stable	26-52 weeks or above	Lead times are improving.
	MOSFET, BSSxxx series	Stable	26-52 weeks or above	Lead times are improving.
	MOSFET, NTDxxx series	Stable	31-52 weeks or above	
	MOSFET, FDxxx series	Stable	26-52 weeks or above	Certain parts have more than a 70-week lead time.
	MOSFET, 2Nxxx series	Stable	26-50 weeks or above	
	OpAmp/Comparator, LMxxx series	Stable	28-50 weeks or above	Lead times are improving.
Infineon	MOSFET, BSSxxx/ BSCxxx/ BSZxxx series	Stable	52-65 weeks or above	
	MOSFET, IRFxxx series	Unstable	52-65 weeks or above	
	IGBT, IKxxx series	Increasing	52-60 weeks or above	Certain parts are above a 90-week lead time.
	MOSFET, IPWxxx series	Increasing	52-65 weeks or above	
	PMIC, BSP series	Increasing	52-65 weeks or above	
	PMIC, BTSxxx/BTTxxx series	Stable	42-52 weeks or above	
Nexperia	TVS, PESDxxx series	Stable	30 weeks or above	Lead times are improving.
	MOSFET, BUKxxx/ PMPBxxx series	Stable	24-30 weeks or above	Lead times are improving.
	MOSFET, PSMNxxx series	Stable	27-52 weeks or above	Lead times have improved.
	Zener Diode, BZXxxx/ PDZxxx series	Stable	27-52 weeks or above	Lead times have improved.
	Rectifier, BASxxx series	Stable	27-52 weeks or above	Lead times have improved.

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## DISCRETES - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Diodes Inc.	MOSFET, BSSxxx/ DMCxxx/ DMGxxx series	Stable	34-78 weeks or above	Lead times are above 80 weeks.
	TVS Diodes, SMxxx series	Stable	22 weeks or above	
	Rectifier, BATxxx/ SBRxxx series	Stable	34-52 weeks or above	80-week lead times or above.
	Bipolar Transistors - BJT, MMxxx series	Stable	16-34 weeks or above	
Vishay	Low Voltage MOSFET, SIR/SIRA series	Increasing	56-90 weeks or above	Lack of inventory in the market and no improvement in lead times.
	Opto-couplers, SFHxxx series	Increasing	60-85 weeks or above	No improvement in lead times.
	MOSFET, SQxxx series	Increasing	54-90 weeks or above	Long delivery schedule, no improvement in lead times.
	MOSFET, SUDxxx series	Increasing	60-80 weeks or above	No improvement in lead times.
	MOSFET, Slxxx series	Increasing	46-90 weeks or above	On allocation, no improvement in lead times.
STMicroelectronics	MOSFET, STB/ STD/ STF series, etc	Stable	26-52 weeks or above	

## PASSIVES

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Murata	Inductor and thermistor	Stable	16-30 weeks	
	Ferrite Beads, BLM series	Stable	21-36 weeks	
	Automotive MLCC	Stable	20 weeks or above	Specific parts have longer lead times.
Samsung Electro-mechanics	Normal MLCC	Stable	18-30 weeks or above	
	Chip Resistor	Stable	30-40 weeks or above	
Vishay	Chip Resistor	Increasing	52 weeks or above	Additional stock released.
	Normal MLCC	Stable	20 weeks or above	Lead times might be longer for specific part numbers

## ELECTROMECHANICAL / CONNECTORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
TE Connectivity	Relays	Stable	30-70 weeks	Subjected to specific part numbers
Molex	General	Stable	20-52 weeks or above	

## PROGRAMMABLE LOGIC

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Xilinx	Spartan 3, XC3S series, FPGA	Slight increase	30-50 weeks or above	
	Spartan 6, XC6S series, FPGA	Decreasing	52 weeks or above	XC6SLX45/100/150 series is in shortage; the price remains high.
	Spartan 7, XC7S series, FPGA	Decreasing	30-50 weeks or above	Stable delivery.
	Artix 7, XC7A series, FPGA	Decreasing	30-50 weeks or above	Stable delivery.
	Kintex 7, XC7K series, FPGA	Decreasing	30-50 weeks or above	Stable delivery.
Altera	Cyclone III, EP3C series, FPGA	Stable	46-52 weeks or above	On allocation, stock availability is low.
	Cyclone IV, EP4C series, FPGA	Stable	45-52 weeks or above	On allocation.
	MAX II, EPM1/EMP2/ EPM5 series CPLD	Stable	45 weeks or above	
	Max V, 5Mxxx series, CPLD	Increasing	45 weeks or above	Shortage without a commit date.

## MICROCONTROLLERS &amp; PROCESSORS

Manufacturer	Part/Series	Pricing	Lead Time	Notes
NXP / Freescale	S32K1XX family, FS32K142/144/146 series	Stable/High	52 weeks or above	Price remains high for FS32K116 & FS32K148 Series. Increased demand from FS32K144/146xxx Series.
	MCU, MCS9/S9 series	Stable	26-52 weeks or above	Price adjusting down with more stable support.
	MCU Kinetis - KL, MKxxx series	Increasing	52 weeks or above	Irregular delivery schedule. High demand is causing a shortage.
	MPU, i.MX series	Stable	52-60 weeks or above	i.MX 6 series price is increasing 10%-25%.
	MCU, LPCxxx series	Stable	40-52 weeks or above	Specific part numbers are in shortage.
	MCU, MCF56 series	Increasing	32-50 weeks or above	Lead times are stretching.
STMicroelectronics	8-bit MCU, STM8 series	Stable	52 weeks or above	Demand dropped. Sufficient inventory in the market, but it still shows "On Allocation" with the manufacturer.
	32-bit MCU, STM32 series	Stable	45-54 weeks or above	STM32F4, STM32H7 & STM32F7 series is still on shortage. 32-bit MCU "On Allocation" from the manufacturer.
	32-bit MCU, SPCxxx series	Stable	52 weeks or above	
Microchip	ex-Atmel MCU, ATMEGA series	Stable/ Drop	45-52 weeks or above	We are seeing a price increase for the ATmega2560 Series.
	ex-Atmel MCU, AT89xxx series	Increasing	52 weeks or above	
	ex-Atmel MCU, AT90xxx series	Stable/ Drop	30-52 weeks or above	Cost & lead times are improving.
	MCU, PIC16xxx/ PIC18xxx series	Stable/ Drop	45-52 weeks or above	

## ANALOG &amp; COMPLEX ICs

Manufacturer	Part/Series	Pricing	Lead Time	Notes
Texas Instruments	DSP, TMSxxx series	Stable	35 weeks or above	High demand for automotive-grade devices.
	PMIC, LMxxx series	Stable	35-52 weeks or above	Stock released to the market. High demand for automotive grade
	Power Management ICs, TPS series	Decreasing	35 weeks or above	TPS546D24 is still in a high price range
	OpAmp, OPA series	Increasing	35-52 weeks or above	OPA2140AIDGKR is still in shortage
Analog Devices	General	Stable	35-52 weeks or above	More stock available in the market pushing spot buy price down.
	OpAmp, OPxxx series	Stable	39-52 weeks or above	
	OpAmp, AD62xxx series	Stable	39-52 weeks or above	Certain parts have lead times of over 80 weeks.
	OpAmp, AD86xxx series	Stable	26-78 weeks or above	
	Interface, ADMxxx series	Stable	26-52 weeks or above	Certain parts have lead times of over 80 weeks.
	Digital Isolators, ADUMxxx series	Stable/High	26-65 weeks or above	
	ex-Linear Tech series, LTxxx series	Increasing	54 weeks or above	On allocation.
Microchip	ex-SMSC series, e.g. LANxxx, USBxxx	Stable	52 weeks or above	Cost and lead times are improving.
	ex-Micrel series, e.g. KSZxxxx, MICxxx	Stable	52 weeks or above	KSZ series is still in shortage.

## ANALOG &amp; COMPLEX ICs - Continued

Manufacturer	Part/Series	Pricing	Lead Time	Notes
NXP / Freescale	Interface, TJAxxx series	Stable	39-50 weeks or above	
	Interface, PCA series	Stable	45-52 weeks or above	
Maxim Integrated	General	Stable	30-50 weeks	
	ex-Dallas Real Time Clock, e.g. DS1302, DS1304, DS3231, etc.	Stable	52-70 weeks or above	Shortage.
	Auto grade, with suffix / V+T	Increasing	43-69 weeks or above	Shortage.
Nexperia	Logic, 74xxx series	Stable	27-50 weeks or above	
onsemi	Logic, 74xxx series	Stable	30-50 weeks or above	
Texas Instruments	Dropping	26-52 weeks or above	Market demand and spot buy price drop. No shortage.	



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