

## MONTHLY MARKET UPDATE - JANUARY 19, 2021

MEMORY

DISCRETES

PASSIVES

### TEXAS INSTRUMENTS

Part/Series	Pricing	Lead Time	Notes
High ASP Product		Stable	
TPS6 Series	Increasing 30%	Shortage	The market's immediate stock pricing is volatile.
ULN2803ADWR, ISO1050DUBR & SN65HVD Series	Increasing	27 - 35 weeks	
TLV, BQ, TPS Series	Increasing	Increasing	
UCC & BQ Series	Increasing	20+ weeks	
PMIC with package type SOT-23-5 (Suffix DDCR), 8-WSON (Suffix DSGR) & 10-MSOP-PowerPad (suffix DGQR)	Increasing	20+ weeks	

### ANALOG DEVICES

Part/Series	Pricing	Lead Time	Notes
Legacy product, e.g. AD620ANZ, AD627, AD622, AD822, AD823, AD694, AD420, AD7710, AD654, AD536, AD652AQ	Increasing 10 - 20%	16 - 22 weeks	Support is still unstable.

### MICROCHIP

Part/Series	Pricing	Lead Time	Notes
ATMEGA Series	Unstable	Increasing	
Ex-SMSC (LANxxx / USBxxx Series)	Unstable	Increasing	
PIC Series	Unstable	Increasing	

### MAXIM INTEGRATED

Part/Series	Pricing	Lead Time	Notes
Automotive parts	Increasing	24+ weeks	

### NXP / FREESCALE

Part/Series	Pricing	Lead Time	Notes
LPC Series	Increasing	28 - 36 weeks	Delivery schedules are becoming more unstable and more are being push out. Lead time orders are currently difficult to support.
Ex-Freescale MCUs & Sensors	Increasing	30 - 56 weeks	This situation might continue through Q2 2021. Some orders do not have delivery schedules.
TJA/PCA/SJA Series	Increasing	Increasing	Supply is tight due to the increase in demand. Some of vendors are unable to support lead time orders.

### SEMTECH

Part/Series	Pricing	Lead Time	Notes
RF Transceivers e.g. SX12xxx	Becoming stable	Increasing	Need to re-verify price before ordering.
ESD Suppressors / TVS Diodes e.g. RCLAMP3624T.TC T / UCLAMP3311P.TC T	Stable	Extended	Lead times can only be confirmed after load orders.

### CYPRESS

Part/Series	Pricing	Lead Time	Notes
Ex-Ramtron Series	Increasing		
CY7C/CY8C, CYUSBxxx, CYPD5xxx Series	Increasing	On allocation	

## MONTHLY MARKET UPDATE - CONTINUED

### SILICON LABS

Part/Series	Pricing	Lead Time	Notes
EFM Series (32 bit wireless MCU)	Increasing 15%	20+ weeks	
EFM series (8 bit wireless MCU)	Increasing 10%	20+ weeks	
EFM32 Series	Increasing 15%	20+ weeks	
Timing devices	Increasing 10-15%	20+ weeks	

### XILINX

Part/Series	Pricing	Lead Time	Notes
XC6S, XC6V, XC7K & XC7V	Increasing 25%	20+ weeks	The deadline for ordering with old price was December 23, 2020.
XCF01/02/04/08/16/32 Series	Increasing	20+ weeks	Last time buys will start on October 2, 2021.

### ALTERA

Part/Series	Pricing	Lead Time	Notes
Arria GX, Stratix II, Stratix II GX, MAX 7000A, MAX II (including MAX II G/Z) e.g. EPxAGX, EP2S, EP2SGX, EPM7	Increasing	Increasing	Due to low volumes and declining demand, parts will be obsolete without replacement. Last time buys will start on June 4, 2021.

### ST MICROELECTRONICS

Part/Series	Pricing	Lead Time	Notes
STM32F0/F1/F4	Increasing 2 - 3 times	On allocation	Manufacturer has insufficient capacity. It's difficult to support lead time orders.
STM8S and STM8L	Increasing 2 - 3 times	On allocation	Manufacturer has insufficient capacity. It's difficult to support lead time orders.

## MONTHLY MARKET UPDATE - CONTINUED

### MEMORY

#### MACRONIX

Part/Series	Pricing	Lead Time	Notes
NAND Flash	Increasing	12 - 16 weeks and unstable	Lead time orders are subjected to factory capacity.
NOR Flash	Increasing 20 - 50%	Unstable	Lead time orders are subjected to factory capacity.

#### ISSI

Part/Series	Pricing	Lead Time	Notes
DRAM	Increasing 8 - 10%	6 - 8 weeks	Immediate stock pricing is volatile.
SRAM	Increasing 8 - 10%	6 - 8 weeks	Immediate stock pricing is volatile.

#### MICRON

Part/Series	Pricing	Lead Time	Notes
MT28EW Series	Increasing		There will be a factory production issue until the end of Feb. 2021.
DDR3 Series	Increasing 5%		Demand is increasing from customers.
DDR4/LPDDR4 Series		12+ weeks	Lead times are increasing.
NAND Flash	Increasing	8 - 12 weeks	Lead times are increasing.
DRAM		8 - 12 weeks	

#### SAMSUNG

Part/Series	Pricing	Lead Time	Notes
DRAM	Increasing		MFR is low on supply.

### DISCRETES

#### DIODES INC.

Part/Series	Pricing	Lead Time	Notes
Logic Gates (e.g. AHC family), legacy MicroProcessor Supervisory IC & MOSFET	Increasing	Increasing	There is a Price Increase Notice for these parts effective January 1st, 2021 due to the increase of cost and extended lead times from suppliers.
Ex-Zetex Series	Increasing	22 - 24 weeks	Lead times are extended for another 4 weeks.

#### VISHAY

Part/Series	Pricing	Lead Time	Notes
Diodes and Rectifiers in the VS-Series	Increasing	30+ weeks	

#### LITTELFUSE

Part/Series	Pricing	Lead Time	Notes
Ex-IXYS products	Increasing	Increasing	Market shortage

#### ON SEMICONDUCTORS

Part/Series	Pricing	Lead Time	Notes
Standard Logic, MOSFETs and Diodes	Increasing	30 - 35 weeks	

## MONTHLY MARKET UPDATE - CONTINUED

### PASSIVES

#### MURATA

Part/Series	Pricing	Lead Time	Notes
MLCCs	Unstable	20+ weeks	There is strong demand within the communication / mobile phone and automotive segments.
Automotive MLCCs, size 0402 with high capacitance, 106/475/476	Unstable	Extended	Tight supply
Inductors		10 - 12 weeks and increasing	There is a raw material shortage.

#### TAIYO YUDEN

Part/Series	Pricing	Lead Time	Notes
All MLCCs - e.g. Small Case Size - 0402 / 0603 / 0201 and Large Case Size 1210	Increasing 30%	Increasing	Lead times are increasing an additional 2 - 4 weeks.
Inductors with COO Philippines		24+ weeks	Lead times are increasing an additional 6 weeks due to material shortages and logistic issues.

#### AVX

Part/Series	Pricing	Lead Time	Notes
MLCCs with large case sizes, high voltage and capacitance		25 - 30 weeks	
High-end Tantalum Capacitors			
Commodity Capacitors			Production moved to Czech Republic
Tantalum Capacitors, e.g. TAJ series	Increasing 5 - 15%	On allocation, over 45 weeks	Production has returned to El Salvador with 100% capacity

#### KEMET

Part/Series	Pricing	Lead Time	Notes
MLCCs	Increasing	20 weeks	
Tantalum Capacitors - Polymer (T49)	Increasing 10 - 30%	28 - 32 weeks	These conditions are more significant for A/B case sizes.

#### VISHAY

Part/Series	Pricing	Lead Time	Notes
MLCCs & Tantalum Capacitors	Increasing	Increasing	Tight supply

#### LITTELFUSE

Part/Series	Pricing	Lead Time	Notes
Fuse - 452 Series		9 - 11 weeks	Lead times have improved
Fuse - 438 Series		26 weeks	Lead times have improved
Parts with COO China	Increasing	Stable	
Non-COO China Parts	Increasing	Increasing	

#### SAMSUNG ELECTRO-MECHANICS

Part/Series	Pricing	Lead Time	Notes
MLCCs	Stable	18 - 24 weeks	These are on allocation with no improvement. Demand is mainly coming from the 5G and automotive markets.
High capacitance MLCCs, 106/226, etc.	Increasing	Increasing	Tight supply

#### YAGEO

Part/Series	Pricing	Lead Time	Notes
MLCCs	Increasing 8 - 10%	20 weeks	
RC Series	Increasing 15%	20 weeks	

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