

# Commercial News

A general overview of the market situation as well as lead times and prices

## Analog

**High-End:** Lead times are still extremely high, standard at 20-26 weeks.

NXP announced price increase for 1st of July.

**Commodities:** Lead times remain on a high level, prices increased in average by 5-8 %.

Further price increases expected.

**In General:** STM, ONS, MXM extended reschedule and cancellation windows for Purchase Orders or implemented NCNR rules: STM NCNR CY21/ONS-MXM rolling 120 days.



	Lead Time (wk)	Price
Switched Voltage Regs	↑ 20-26	↔



	Lead Time (wk)	Price
Data Converters	↑↑ 12-15	↔
Interface	↑↑ 12-15	↑
Interface (High End)	↑↑ 12-15	↔
Op Amps Commodities	↑↑ 12-15	↑
Op Amps High End	↑↑ 12-15	↔
Peripherals	↑↑ 12-15	↔
Switched Voltage Regs	↑↑ 12-15	↔
Voltage Regulators	↑↑ 12-15	↔



	Lead Time (wk)	Price
Data Converters	↑ 16-22	↑
Interface	↑ 16-22	↑
Op Amps High End	↑ 16-22	↑
Switched Voltage Regs	↑ 16-22	↑



	Lead Time (wk)	Price
Interface	↑ 20-26	↑
Op Amps High End	↑ 20-26	↑



	Lead Time (wk)	Price
Interface	↑ 20-26	↑
Op Amps Commodities	↑ 6-26	↑
Op Amps High End	↑ 20-26	↑
Switched Voltage Regs	↑ 20-26	↑
Voltage Regulators	↑ 20-32	↑



	Lead Time (wk)	Price
Data Converters	↑ 20-26	↔



	Lead Time (wk)	Price
Data Converters	↑ 20-26	↑
Interface	↑ 20-26	↑
Op Amps Commodities	↑ 16-26	↑
Op Amps High End	↑ 20-26	↑
Switched Voltage Regs	↑ 20-26	↑
Voltage Regulators	↑ 12-20	↑

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## Discretes

Continuously strong demand for Semiconductors worldwide caused long lead times and constraint capacities across the board. For Q3 CY2021 we expect an ongoing bullish market with limited supply for most products.

In General: STM, ONS and Nexperia extended reschedule and cancellation windows for purchase orders or implemented NCNR rules: STM NCNR CY21/ONS rolling 120 days, Nexperia rolling 210 days.



	Lead Time (wk)	Price
Sensors	↑ 12-40	↑



	Lead Time (wk)	Price
RF Devices	↑ 28-50	↑



	Lead Time (wk)	Price
Bi-polar Power	↑ 16-52	↑
IGBT	↑ 12-50	↑
Power MOSFETs	↑ 20-52	↑
Rectifiers	↑ 18-52	↑
RF Devices	↑ 20-45	↑
Sensors	↑ 18-50	↑
Small Signal	↑ 16-52	↑
Thyristors	↑ 16-52	↑



	Lead Time (wk)	Price
Sensors	↔ 6-8	↔



	Lead Time (wk)	Price
Bi-polar Power	↑ 20-34	↑
Power MOSFETs	↑ 26-52	↑
Small Signal	↑ 20-52	↑
TVS/Protection	↑ 22-52	↑
Zener Diodes	↑ 22-36	↑



	Lead Time (wk)	Price
RF Devices	↔ 20-30	↑
Sensors	↑ 30-40	↑



	Lead Time (wk)	Price
Bi-polar Power	↑ 21-52	↑
IGBT	↔ 15-48	↑
Power MOSFETs	↑ 21-52	↑
Rectifiers	↑ 21-52	↑
Small Signal	↑ 20-52	↑
TVS/Protection	↑ 20-52	↑
Zener Diodes	↑ 18-52	↑

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## Discretes

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In General: STM, ONS and Nexperia extended reschedule and cancellation windows for purchase orders or implemented NCNR rules: STM NCNR CY21/ONS rolling 120 days, Nexperia rolling 210 days.



	Lead Time (wk)	Price
Bi-polar Power	↑ 20-52	↑
IGBT	↔ 30-42	↑
Rectifiers	↑ 30-52	↑
Small Signal	↑ 25-52	↑
Thyristors	↑ 25-52	↑
TVS/Protection	↑ 23-52	↑

## TOSHIBA

	Lead Time (wk)	Price
Power MOSFETs	↑ 18-36	↑



	Lead Time (wk)	Price
Power MOSFETs	↑ 26-52	↑
Rectifiers	↑ 18-52	↑
Small Signal	↑ 24-52	↑
Thyristors	↑ 22-52	↑
TVS/Protection	↑ 26-52	↑
Zener Diodes	↑ 22-52	↑

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A general overview of the market situation as well as lead times and prices

## Memory

### ALL PRICE TENDENCIES ARE INDICATED IN USD

Please provide long-term demand on all technologies. Forecast/Order backlog is key for supply.

- DRAM:** Allocation, increasing pricing on all technologies, DDR3/LPDDR4 critical, supply extremely low
- NAND Flash:** Allocation, supply very constrained on specific technologies (eMMC, SLC), increasing pricing and lead times
- NOR Flash:** Allocation, supply very constrained, increasing pricing and lead times
- SRAM:** Supply constraints on specific technologies



	Lead Time (wk)	Price
Serial NOR Flash	↑↑ 24-30	↑



	Lead Time (wk)	Price
FRAM	↑↑ 24-30	↑



	Lead Time (wk)	Price
FRAM	↑↑ 24-36	↑
nvSRAM	↑↑ 24-36	↔
Parallel NOR Flash <sup>x1</sup>	↑↑ 24-36	↑
Serial NOR Flash <sup>x1</sup>	↑↑ 24-36	↑
SRAM Asynch.	↑↑ 24-28	↑
SRAM Synch.	↑↑ 24-28	↑

<sup>x1</sup> Allocation



	Lead Time (wk)	Price
DDR/mobile DDR	↑ 12-20	↑
DDR2/LPDDR2	↑ 12-20	↑↑
DDR3/DDR3L	↑↑ 16-24	↑↑
DDR4/LPDDR4	↑ 16-24	↑
Managed NAND (eMMC, UFS) <sup>x1</sup>	↑↑ 40	↑
NAND (SLC,MLC,TLC,3D)	↑ 16-24	↑
Parallel NOR Flash <sup>x1</sup>	↑ 14-18	↑
SDRAM/mobile SDRAM	↑ 12-20	↑
Serial NOR Flash <sup>x1</sup>	↑↑ 20-40	↑
SRAM Asynch.	↑ 8-12	↔
SRAM Synch.	↑ 8-12	↔

<sup>x1</sup> Allocation



	Lead Time (wk)	Price
Managed NAND (eMMC, UFS)	↑↑ 36-40	↑
NAND (SLC,MLC,TLC,3D)	↑ 24-28	↑
SSD	↑ 12-16	↔

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## Memory

### ALL PRICE TENDENCIES ARE INDICATED IN USD

Please provide long-term demand on all technologies. Forecast/Order backlog is key for supply.

**DRAM:** Allocation, increasing pricing on all technologies, DDR3/LPDDR4 critical, supply extremely low

**NAND Flash:** Allocation, supply very constrained on specific technologies (eMMC, SLC), increasing pricing and lead times

**NOR Flash:** Allocation, supply very constrained, increasing pricing and lead times

**SRAM:** Supply constraints on specific technologies



	Lead Time (wk)	Price
EEProm	↑↑ 5-52	↑
Eprom	↑↑ 5-52	↑
Serial NOR Flash	↑↑ 24-28	↑



	Lead Time (wk)	Price
EEProm	↔ 8-12	↔
FIFO	↑ 16-20	↑↑
SRAM Asynch.	↑ 20-24	↑↑
SRAM Multiport	↑ 16-20	↑↑
SRAM Synch.	↑ 20-24	↑↑



	Lead Time (wk)	Price
DDR/mobile DDR <sup>x1</sup>	↑↑ 20-24	↑
DDR2/LPDDR2 <sup>x1</sup>	↑↑ 20-24	↑
DDR3/DDR3L <sup>x1</sup>	↑↑ 24-28	↑
DDR4/LPDDR4 <sup>x1</sup>	↑↑ 24-28	↑↑
Managed NAND (eMMC, UFS) <sup>x1</sup>	↑↑ 24-28	↑↑
microSD <sup>x1</sup>	↑↑ 20-24	↑↑
NAND (SLC,MLC,TLC,3D) <sup>x1</sup>	↑↑ 24-28	↑
Parallel NOR Flash <sup>x1</sup>	↑↑ 24-28	↑↑
SDRAM/mobile SDRAM <sup>x1</sup>	↑↑ 20-24	↑
Serial NOR Flash <sup>x1</sup>	↑↑ 24-28	↑↑
SSD <sup>x1</sup>	↑↑ 20-24	↑↑

<sup>x1</sup> Allocation



	Lead Time (wk)	Price
DDR2 <sup>x1</sup>	↑↑ 14-20 – EOL	↑↑
DDR3/DDR3L <sup>x1</sup>	↑↑ 14-20	↑↑
DDR4/LPDDR4 <sup>x1</sup>	↑↑ 14-20	↑↑
Managed NAND (eMMC, UFS) <sup>x1</sup>	↑↑ 14-20	↑↑
SSD <sup>x1</sup>	↑ 14-16	↑

<sup>x1</sup> Allocation



	Lead Time (wk)	Price
EEProm	↑ 7-21	↑
Serial NOR Flash	↑ 16-20	↑

	Lead Time (wk)	Price
EEProm	↑↑ 8-52	↑
NVRAM	↑ 16-24	↔

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## Opto

Lead times remain on a very high Level.  
Osram: some products are still on allocation.  
Partly price increases.



	Lead Time (wk)	Price
LEDs High Power General Lighting	↔ 4-6	↔
LEDs Low/Mid Power General Lighting	↑ 4-6	↔



	Lead Time (wk)	Price
Coupler	↑ 18-30	↑
LEDs High Power	↑↑ 10-30	↔
LEDs Low/Mid Power	↑ 16-20	↔



	Lead Time (wk)	Price
Coupler	↑↑ 18-30	↑
LED's High Power	↑↑ 8-26	↔
LEDs Infrared	↑↑ 6-24	↑
LEDs Low/Mid Power	↑ 22-24	↑
LEDs Ultraviolet	↑ 6-20	↔



	Lead Time (wk)	Price
LED Optic	↔ 4-6	↔



	Lead Time (wk)	Price
LED's High Power	↔ 6-10	↔
LEDs High Power General Lighting	↔ 6-8	↔
LEDs Infrared	↑ 6-12	↑
LEDs Low/Mid Power General Lighting	↔ 6-8	↔
LEDs Ultraviolet	↑ 6-8	↔



	Lead Time (wk)	Price
Coupler	↑↑ 8-51	↑↑

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## Opto

Lead times remain on a very high Level.  
Osram: some products are still on allocation.  
Partly price increases.

### OSRAM

	Lead Time (wk)	Price
LED's High Power <sup>x1</sup>	↑↑ 10-36	↔
LEDs High Power General Lighting <sup>x2</sup>	↑↑ 10-34	↔
LEDs Infrared	↑ 8-24	↔
LEDs Low/Mid Power <sup>x3</sup>	↑↑ 10-26	↑
LEDs Low/Mid Power General Lighting	↑↑ 12-24	↑

<sup>x1</sup> Official allocation KW H2L531.TE, KW H3L531.TE, LUW HWQP  
Tight Supply LA H9PP 20-24 weeks, KW H4L531.TE, KW H5L531.TE,  
LCY CEUP 16-20wksLUW H9QP – PDN announced, LTO 15.11.20  
Official allocation LUW CEUP.CE, LCY CEUP  
Official Allocation:  
KW CELNM1.TG, KW2 CFLNM1.TG, KY CELNM1.FY, KW CELNM2.TK;  
Tight Supply:  
KW2 CFLNMx.xx 26-28 weeks; Kx CELNMx.xx 30 weeks LE UW Q9WP  
discontinued; LE UW D1Wxxx discontinued; LTO 30.11.20 (LT on request  
APT (LA G6SP.01, LS G6SP.01, LA G6SP, LS G6SP, LY G6SP):  
LS G6SP, LS G6SP.01:  
No change, the allocation end date is planned for end of March 2021.  
LA G6SP.01, LA G6SP, LY G6SP:  
The allocation end date has been newly changed to end of June 2021.  
<sup>x2</sup> Official allocation on: OSLO Square HyperRed/Deepblue, OSLO  
Square White; Tight supply (20-34 weeks) on Duris S5, Duris S8,  
OSQONIQ S3030, OSQONIQ P2226, OSLO SSL white & color,  
<sup>x3</sup> Allocation Update:  
\*TOPLED (LA T67F; LW TVSG.CB):  
- LA T67F: The allocation end date was newly set for end of  
October 2021  
- LW TVSG.CB: The allocation end date was newly set for end of  
December 2021  
\*TOPLED E1608 (KW DELPS2.RA; KW DELSS2.RA, KS DELPS1.22):  
No change, the allocation end date is set to end of September 2021  
\*MiniTOPLED (LW M67C): No change, the allocation  
end date is planned for end of September 2021  
\*PowerTOPLED (LA E67F, LY E67F): The allocation end date was newly  
set for end of October 2021  
\*6-lead MULTILED (LRTB GVSG): The allocation end date was newly set  
for end of October 2021  
\*SYNOS P2720 (KR DMLQ31.23, KW DMLN31.SG, KW DMLN33.SG,  
KR DMLN31.23, KY DMLQ31.FY, KY DMLN31.23, KR DMLS31.23):  
The allocation end date was newly set for end of December 2021

### RENESAS

	Lead Time (wk)	Price
Coupler	↑↑ 12-30	↑↑

### SAMSUNG

	Lead Time (wk)	Price
LED's High Power	↑ 8-10	↔
LEDs High Power General Lighting <sup>x1</sup>	↑ 10-12	↑
LEDs Low/Mid Power	↑ 8-12	↔
LEDs Low/Mid Power General Lighting <sup>x2</sup>	↑ 8-14	↔

<sup>x1</sup> increased leadtimes for LH351B/C/D/H  
<sup>x2</sup> LM301B 12-14 weeks

### TOSHIBA

	Lead Time (wk)	Price
Coupler	↑↑ 12-52	↑↑

### VISHAY

	Lead Time (wk)	Price
Coupler	↑↑ 8-48	↑↑
LED's High Power	↑↑ 7-52	↔
LEDs Infrared <sup>x1</sup>	↑↑ 6-24	↑
LEDs Low/Mid Power	↑↑ 10-32	↑↑
LEDs Ultraviolet	↔ 6-20	↔

<sup>x1</sup> 0805 SMD up to 35 weeks  
IR receiver up to 18 weeks\*

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## MCU & DSP

Microcontroller lead times are still very long:

**NXP** is at 30-50 weeks, **REN** is at 24-30 weeks, **STM** on allocation for several families.

**Microchip**: PSP remains open for new customers. Delivery times can be shortened by participation. Please contact us for further details.

**NXP**: Prices will increase by 10 % on average on the 1st of July 2021



	Lead Time (wk)	Price
8 Bit	↑ 18-36	↑
16 Bit	↑ 16-36	↑
32 Bit	↑ 16-26	↑



	Lead Time (wk)	Price
MCUs	↑ 24-30	↑



	Lead Time (wk)	Price
8 Bit	↑ 20-40	↑
16 Bit	↑ 20-45	↑
32 Bit	↑↑ 30-50	↑



	Lead Time (wk)	Price
8 Bit AVR	↑↑ 39-71	↑
8 Bit PIC	↑↑ 38-68	↑
16 Bit	↑↑ 36-68	↑
32 Bit	↑↑ 64-72	↑



	Lead Time (wk)	Price
8 Bit	↑↑ 30-50	↑↑
16 Bit	↑ 30-50	↑↑
32 Bit	↑↑ 30-50	↑↑
i.MX	↑↑ 30-50	↑↑
DSP	↑↑ 30-50	↑↑

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## Program. Logic

Xilinx expects lead times until Q2/22. Again, place forecasts up to 18 months in advance to secure supplier support. The ability to respond to expedite requests/linedowns is currently very limited.

Microchip: PSP remains open for new customers. Delivery times can be shortened by participation. Please contact us for further details.



	Lead Time (wk)	Price
Program. Logic	↑↑ 13-47	↑↑



	Lead Time (wk)	Price
Program. Logic	↔ 13-52	↔

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## Logic

Prices and lead times remain high with limited supply. In General: ONS, NXE extended reschedule and cancellation windows for Purchase Orders or implemented NCNR rules: ONS rolling 120 days. NXE rolling 210 days.

nexperia

	Lead Time (wk)	Price
Standard Logic	↑ 20-26	↑

**TOSHIBA**

	Lead Time (wk)	Price
Standard Logic	↑ 18-28	↑

ON Semiconductor®



	Lead Time (wk)	Price
Standard Logic	↑ 18-45	↑