

# 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, exceeding even partially 52 weeks.

**Commodities:** lead times on a very elevated level, prices still increasing.

**In General:** • Extended reschedule and cancellation windows set on NCNR:

- for STM until end CY2022
- for ONS rolling 365 days



	Lead Time (wk)	Price
Switched Voltage Regs	↑ 21-52	↔



	Lead Time (wk)	Price
Data Converters	↔ 43-57	↑
Interface	↑ 50-64	↑
Op Amps High End	↑ 49-63	↑
Switched Voltage Regs	↑ 51-57	↑



	Lead Time (wk)	Price
Interface	↑ 20-26	↑
Op Amps High End	↑ 22-52	↑



	Lead Time (wk)	Price
Interface	↑ 21-52	↑
Op Amps Commodities	↑ 21-52	↑↑
Op Amps High End	↑ 22-52	↑↑
Switched Voltage Regs	↑ 21-52	↑↑
Voltage Regulators	↑ 21-52	↑↑



	Lead Time (wk)	Price
Data Converters	↑ 21-52	↑
Interface	↑ 26-52	↑
Op Amps Commodities	↑ 21-52	↑
Op Amps High End	↑ 21-52	↑
Switched Voltage Regs	↑ 21-52	↑
Voltage Regulators	↑ 21-52	↑

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## Discretetes

The semiconductor market worldwide continues to be tight. On top of the wafer shortage, the availability of raw materials in general is constraint. STMicroelectronics and onsemi implemented NCNR rules: STMicroelectronics NCNR until end of June CY22, onsemi NCNR for rolling 365 days. Nexperia has an extended reschedule and cancellation window of 90 days for standard devices.

### amul OSRAM

	Lead Time (wk)	Price
Sensors	↑ 21-52	↑

### BROADCOM

	Lead Time (wk)	Price
RF Devices	↑ 26-52	↑

### Infineon

	Lead Time (wk)	Price
Bi-polar Power	↑ 39-52	↑
IGBT	↑ 22-52	↑
Power MOSFETs	↑ 28-52	↑
Rectifiers	↑ 20-52	↑
RF Devices	↑ 22-52	↑
Sensors	↑ 30-52	↑
Small Signal	↑ 41-52	↑
Thyristors	↑ 20-52	↑

### nexperia

	Lead Time (wk)	Price
Bi-polar Power	↑ 20-31	↑
Power MOSFETs	↑ 29-52	↑
Small Signal <sup>x1</sup>	↑ 18-39	↑
TVS/Protection <sup>x1</sup>	↑ 26-36	↑
Zener Diodes <sup>x1</sup>	↑ 20-32	↑

<sup>x1</sup> for AECQ applications please use the new Q-versions

### NXP

	Lead Time (wk)	Price
RF Devices	↑ 28-52	↑
Sensors	↑ 30-52	↑

### onsemi

	Lead Time (wk)	Price
Bi-polar Power	↑ 30-52	↑
IGBT	↑ 35-52	↑
Power MOSFETs	↑ 28-52	↑
Rectifiers	↑ 26-52	↑
Small Signal	↑ 24-52	↑
TVS/Protection	↑ 26-52	↑
Zener Diodes	↑ 26-52	↑

### ST

life.augmented

	Lead Time (wk)	Price
Bi-polar Power	↑ 24-30	↑
IGBT	↑ 36-52	↑
Rectifiers	↑ 47-52	↑
Small Signal	↑ 42-52	↑
Thyristors	↑ 32-52	↑
TVS/Protection	↑ 30-52	↑

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### TOSHIBA

	Lead Time (wk)	Price
Power MOSFETs	↑ 29-52	↑



	Lead Time (wk)	Price
Power MOSFETs	↑ 30-52	↑
Rectifiers	↑ 22-52	↑
Small Signal	↑ 34-52	↑
Thyristors	↑ 28-52	↑
TVS/Protection	↑ 31-52	↑
Zener Diodes	↑ 24-52	↑

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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.

**General situation:** Prices and lead times still on a high level, first indication for improving availability.

**DRAM:** allocation, DDR3/LPDDR4 supply constrained, lead times stabilized.

**NAND Flash:** allocation, supply constrained on specific technologies (eMMC, SLC).

**NOR Flash:** allocation, supply very constrained, Shanghai lockdown impacts supply additionally, pricing and lead times on a high level.

**SRAM:** supply constraints on specific technologies.



	Lead Time (wk)	Price
Serial NOR Flash	↑↑ 24-36	↑



	Lead Time (wk)	Price
FRAM	↑↑ 24-30	↑



	Lead Time (wk)	Price
FRAM	↑↑ 44-52	↔
nvSRAM	↑↑ 44-52	↔
Parallel NOR Flash <sup>x1</sup>	↑↑ 36-42	↔
Serial NOR Flash <sup>x1</sup>	↑↑ 36-42	↔
SRAM Asynch.	↔ 24-36	↔
SRAM Synch.	↔ 24-36	↔

<sup>x1</sup> Allocation



	Lead Time (wk)	Price
DDR/mobile DDR	↑ 12-24	↑
DDR2/LPDDR2	↑↑ 12-32	↑↑
DDR3/DDR3L	↑↑ 16-40	↑↑
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	↑↑ 12-36	↑
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)	↔ 24-36	↑
NAND (SLC,MLC,TLC,3D)	↔ 20-28	↑
SSD	↑ 12-16	↔

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	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>	↑↑ 52	↑
SDRAM/mobile SDRAM <sup>x1</sup>	↔ 20-24	↔
Serial NOR Flash <sup>x1</sup>	↑↑ 52	↑
SSD <sup>x1</sup>	↔ 20-24	↔

<sup>x1</sup> Allocation



	Lead Time (wk)	Price
DDR3/DDR3L <sup>x1</sup>	↑ 14-20	↔
DDR4/LPDDR4 <sup>x1</sup>	↔ 10-12	↔
Managed NAND (eMMC, UFS) <sup>x1</sup>	↔ 12-16	↔
SSD <sup>x1</sup>	↔ 10-12	↔

<sup>x1</sup> Allocation



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



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

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## Opto

Lead times remain on a very high level.

**ams-Osram:** some LED product families are still on allocation. Partially price increases.

**ONS:** NCNR until end of CY22.

**Osram DS:** very constraint supply on LED Drivers.

### am<sup>logic</sup> OSRAM

	Lead Time (wk)	Price
LED's High Power	↑↑ 10-36	↔
LEDs High Power General Lighting	↑↑ 10-34	↔
LEDs Infrared*1	↑ 12-38	↑
LEDs Low/Mid Power	↑↑ 10-26	↑
LEDs Low/Mid Power General Lighting	↔ 10-12	↑↑

\*1 SFH2500/SFH4551: 40-50 weeks

### bridgelux

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

### BROADCOM

	Lead Time (wk)	Price
Coupler	↑↑ 18-52	↑
LEDs High Power	↑↑ 10-30	↔
LEDs Low/Mid Power	↑ 16-20	↑

### EVERLIGHT

	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	↔

### LEDiL

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

### LUMINUS

	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	↔

### onsemi

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

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**ONS:** NCNR until end of CY22.

**Osram DS:** very constraint supply on LED Drivers.

### OSRAM

	Lead Time (wk)	Price
LED Driver	↑↑ 20-40	↑
LED Moduls	↑ 16-18	↑

### TOSHIBA

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

### RENESAS

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



	Lead Time (wk)	Price
Coupler	↑↑ 12-48	↑↑
LED's High Power	↑↑ 7-52	↔
LEDs Infrared <sup>x1</sup>	↑↑ 6-24	↑
LEDs Low/Mid Power	↑↑ 10-32	↑↑
LEDs Ultraviolet	↔ 6-20	↔

### SAMSUNG

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

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

<sup>x1</sup> Increased lead times for LH351C/H

<sup>x2</sup> Price increases on LM281B+ & LM281BZ+

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## MCU & DSP

Microcontroller lead times are still on a very high level.

**NXP** is at 30-50 weeks, **REN** is at 30-34 weeks, Renesas DSP2023 program will be introduced, **STM** still on allocation for several families.

**Microchip:** lead time is further increasing and we do not see a recovery until end of 2022. We strongly recommend to check and update your PSP agreements to shorten lead time. Please highlight problems regarding EOL of AT89C51 to your Global Sales Service.

STM changed the NCNR rules: NCNR until end of June CY22.



	Lead Time (wk)	Price
8 Bit	↑ 52-58	↑↑
16 Bit	↑ 52-58	↑↑
32 Bit	↑ 52-58	↑↑



	Lead Time (wk)	Price
MCUs	↑↑ 30-34	↑↑



	Lead Time (wk)	Price
8 Bit	↑ 52	↑
16 Bit	↑ 52	↑
32 Bit	↑ 52	↑



	Lead Time (wk)	Price
8 Bit AVR	↑ 57-71	↑
8 Bit PIC	↑ 50-64	↑
16 Bit	↑ 61-75	↑
32 Bit	↑ 57-71	↑



	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:** general price increase announced for November, Spartan 6 family will go on allocation. Backlog on NCNR.



	Lead Time (wk)	Price
Program. Logic	↑ 52-66	↑



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

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## Logic

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**Onsemi** implemented NCNR window for rolling 365 days.

**Nexperia** has an extended reschedule and cancellation window of 90 days for standard devices.

**nexperia**

	Lead Time (wk)	Price
Standard Logic	↑ 27-52	↑

**TOSHIBA**

	Lead Time (wk)	Price
Standard Logic	↑ 32-52	↑

**onsemi**

	Lead Time (wk)	Price
Standard Logic	↑ 29-52	↑