

# Commercial News

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

## Analog

**High-End:** No major changes in pricing and lead time.

**Commodities:** Lead times and prices remain stable.



	Lead Time (wk)	Price
Switched Voltage Regs	↔ 13-24	↔



	Lead Time (wk)	Price
Data Converters	↔ 6-20	↔
Interface	↔ 6-20	↔
Op Amps High End	↔ 6-20	↔
Switched Voltage Regs	↔ 6-28	↔



	Lead Time (wk)	Price
Op Amps Commodities	↔ 12-16	↔
Op Amps High End	↔ 12-16	↔
Switched Voltage Regs	↔ 8-16	↔
Voltage Regulators	↔ 8-16	↔



	Lead Time (wk)	Price
Interface	↔ 13-24	↔
Op Amps High End	↔ 15-28	↔



	Lead Time (wk)	Price
Interface	↔ 14-24	↔
Op Amps Commodities	↔ 10-20	↔
Op Amps High End	↔ 12-22	↔
Switched Voltage Regs	↔ 12-40	↔
Voltage Regulators	↔ 12-42	↔



	Lead Time (wk)	Price
Switched Voltage Regs	↔ 8-20	↔



	Lead Time (wk)	Price
Data Converters	↔ 12-16	↔
Op Amps Commodities	↔ 12-16	↔
Switched Voltage Regs	↔ 12-16	↔
Voltage Regulators	↔ 12-16	↔



	Lead Time (wk)	Price
Data Converters	↔ 20-24	↔
Interface	↔ 14-20	↔
Op Amps Commodities	↔ 12-20	↔
Op Amps High End	↔ 14-28	↔
Switched Voltage Regs	↔ 14-26	↔
Voltage Regulators	↔ 13-22	↔

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## Discretes

Prices remain stable. The lead times are still moderate but with an economic upswing, they will increase rapidly. It is strongly recommended to place backlog to secure supply. **onsemi** has a general NCNR window for rolling 180 days but for a wide range of Commodities the re-schedule and cancellation window is reduced to 60 days (please see information in the PDF document).



	Lead Time (wk)	Price
Sensors	↔ 16-37	↔



	Lead Time (wk)	Price
RF Devices	↔ 12-18	↔



	Lead Time (wk)	Price
Bi-polar Power	↔ 6-10	↔
IGBT	↔ 15-44	↔
Power MOSFETs	↔ 14-38	↔
Rectifiers	↔ 18-30	↔
RF Devices	↔ 10-14	↔
Sensors	↔ 14-39	↔
Small Signal	↔ 14-24	↔
Thyristors	↔ 18-32	↔



	Lead Time (wk)	Price
Bi-polar Power	↔ 10-18	↔
Power MOSFETs	↔ 10-22	↔
Rectifiers	↔ 9-16	↔
Small Signal	↔ 9-20	↔
TVS/Protection	↔ 9-15	↔
Zener Diodes	↔ 9-18	↔



	Lead Time (wk)	Price
RF Devices	↔ 15-18	↔
Sensors	↔ 18-42	↔



	Lead Time (wk)	Price
Bi-polar Power*	↔ 13-21	↔
IGBT	↔ 16-40	↔
Power MOSFETs	↔ 16-36	↔
Rectifiers	↔ 12-30	↔
Small Signal*	↔ 10-29	↔
TVS/Protection*	↔ 12-23	↔
Zener Diodes*	↔ 11-26	↔

\* 60 days re-schedule and cancellation window



	Lead Time (wk)	Price
Bi-polar Power	↔ 16-20	↔
IGBT	↔ 16-34	↔
Power MOSFETs	↔ 15-34	↔
Rectifiers	↔ 17-29	↔
Small Signal	↔ 16-27	↔
Thyristors	↔ 17-28	↔
TVS/Protection	↔ 16-29	↔

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	Lead Time (wk)	Price
Power MOSFETs	↔ 15-28	↔
Rectifiers	↔ 10-26	↔
Small Signal	↔ 14-24	↔
TVS/Protection	↔ 11-24	↔
Zener Diodes	↔ 14-20	↔

## TOSHIBA

	Lead Time (wk)	Price
Power MOSFETs	↔ 18-38	↔



	Lead Time (wk)	Price
Power MOSFETs	↔ 11-32	↔
Rectifiers	↔ 11-28	↔
Small Signal	↔ 11-20	↔
Thyristors	↔ 14-24	↔
TVS/Protection	↔ 11-18	↔
Zener Diodes	↔ 10-16	↔

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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 planning demand properly.

**General situation:** Price and lead time levels highly depend on supplier and product technology. Trend of increasing price levels and lead times on the latest technologies, good availability of legacy technologies due to missing/reduced demand from industrial and automotive customers.

**DRAM:** Pricing and lead times increasing - impact on LPDDR4/DDR4 and newer technologies like DDR5/LPDDR5 - Legacy DRAM remain to have very solid availability. Unplanned upsides on newer technologies might be difficult to supply. **NAND Flash:** Availability dependent on supplier. Increasing prices and lead times especially on latest tech (SSDs). Unplanned upsides difficult to supply. **NOR Flash:** Prices and lead times flat - good availability on legacy devices. **SRAM:** Good availability - minor constraints on specific technologies.



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



	Lead Time (wk)	Price
FRAM	↔ 8-10	↔
nvSRAM	↔ 10	↔
Parallel NOR Flash	↔ 8-10	↔
Serial NOR Flash	↔ 8-14	↔
SRAM Asynch.	↔ 8-10	↔
SRAM Synch.	↔ 10-12	↔



	Lead Time (wk)	Price
DDR/mobile DDR	↔ 8-12	↔
DDR2/LPDDR2	↔ 8-12	↔
DDR3/DDR3L	↔ 8-12	↔
DDR4/LPDDR4	↔ 6-16	↔
Managed NAND (eMMC, UFS)	↔ 10-12	↔
NAND (SLC,MLC,TLC,3D)	↔ 10-20	↔
Parallel NOR Flash	↔ 12-16	↔
SDRAM/mobile SDRAM	↔ 6-8	↔
Serial NOR Flash	↔ 12-14	↔
SRAM Asynch.	↔ 8-12	↔
SRAM Synch.	↔ 8-12	↔

## KIOXIA

	Lead Time (wk)	Price
Managed NAND (eMMC, UFS)	↔ 16-26	↔
NAND (SLC,MLC,TLC,3D)	↔ 16-52	↔
SSD	↔ 8-12	↔



	Lead Time (wk)	Price
EEprom	↔ 5-52	↔
Eprom	↔ 5-52	↔
Serial NOR Flash	↔ 24-28	↔

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### micron

	Lead Time (wk)	Price
DDR/mobile DDR	↔ 12	↔
DDR2/LPDDR2	↔ 12	↔
DDR3/DDR3L	↔ 12	↔
DDR4/LPDDR4	↑ 20	↑
DDR5/LPDDR5	↑ 20	↑
Managed NAND (eMMC, UFS)	↔ 20	↔
microSD	↑ 20	↑
NAND (SLC,MLC,TLC,3D)	↔ 12	↔
Parallel NOR Flash	↔ 12	↔
SDRAM/mobile SDRAM	↔ 12	↔
Serial NOR Flash	↔ 12	↔
SSD	↑ 20	↑

### onsemi

	Lead Time (wk)	Price
EEPROM	↔ 7-21	↔
Serial NOR Flash	↔ 16-20	↔

### RENESAS

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

### SAMSUNG

	Lead Time (wk)	Price
DDR3/DDR3L	↔ 6-8	↔
DDR4/LPDDR4	↔ 6-8	↔
DDR5/LPDDR5	↔ 6-8	↔
Managed NAND (eMMC, UFS)	↔ 6-8	↔
SSD	↔ 6-8	↑

### ST

	Lead Time (wk)	Price
EEPROM	↔ 8-14	↔
NVRAM	↔ 8-16	↔

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## Opto

### LEDs

Overall good supply situation.

#### ams OSRAM:

Allocation on OSOLON Compact PL Gen2

Tight supply on OSCONIQ P3737.

### Coupler:

Overall good supply situation.

#### Vishay:

Lead time 4-16 weeks for majority of the Optocoupler portfolio.

### ams OSRAM

	Lead Time (wk)	Price
LEDs High Power*1	↔ 10-14	↔
LEDs High Power General Lighting	↔ 10-14	↔
LEDs Infrared	↔ 12-18	↔
LEDs Low/Mid Power	↔ 10-28	↔
LEDs Low/Mid Power General Lighting	↔ 10-12	↔
LEDs Ultraviolet	↔ 6-8	↔

\*1 Allocation OSOLON Compact PL Gen2 (KW CELNM2.TK, KW2 CFLNM2.TK, KW3 CGLNM2.TK, KY CELNM2.FY); Tight supply on OSCONIQ P3737 (GW PUSRA1.xM, GW PUSTA1.xM)

### bridgelux

	Lead Time (wk)	Price
LED Driver	↔ 10-12	↔
LEDs High Power General Lighting	↔ 4-6	↔
LEDs Low/Mid Power General Lighting	↔ 6-8	↔

### BROADCOM

	Lead Time (wk)	Price
Coupler	↔ 8-36	↔
LEDs High Power	↔ 12-14	↔
LEDs Low/Mid Power	↔ 12-14	↔

### EVERLIGHT

	Lead Time (wk)	Price
Coupler	↔ 12-30	↔
LEDs High Power	↔ 12-14	↔
LEDs Infrared	↔ 6-24	↔
LEDs Low/Mid Power	↔ 12-14	↔
LEDs Ultraviolet	↔ 6-20	↔

### inventronics

	Lead Time (wk)	Price
LED Driver	↔ 12-14	↔
LED Module	↔ 12-14	↔

### LEDiL

	Lead Time (wk)	Price
LED Optic	↔ 6-8	↔

### LUMINUS

	Lead Time (wk)	Price
LEDs 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	↔ 6-26	↔

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### Coupler:

Overall good supply situation.

#### Vishay:

Lead time 4-16 weeks for majority of the Optocoupler portfolio.

### RENESAS

	Lead Time (wk)	Price
Coupler	↔ 18-20	↔

### SAMSUNG

	Lead Time (wk)	Price
LEDs High Power	↔ 8-10	↔
LEDs High Power General Lighting	↔ 8-10	↔
LEDs Low/Mid Power	↔ 8-10	↔
LEDs Low/Mid Power General Lighting	↔ 8-10	↔
LEDs Module	↔ 12-16	↔

### TOSHIBA

	Lead Time (wk)	Price
Coupler	↔ 12-40	↔

### VISHAY

	Lead Time (wk)	Price
Coupler	↔ 4-46	↔
LEDs High Power	↔ 12-14	↔
LEDs Infrared	↔ 6-24	↔
LEDs Low/Mid Power	↔ 12-14	↔
LEDs Ultraviolet	↔ 6-20	↔

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## MCU & DSP



	Lead Time (wk)	Price
32 Bit	↔ 8-12	↔



	Lead Time (wk)	Price
8 Bit	↔ 16-26	↔
16 Bit	↔ 16-20	↔
32 Bit	↔ 10-26	↓



	Lead Time (wk)	Price
8 Bit AVR	↓ 4-8	↔
8 Bit PIC	↓ 4-8	↔
16 Bit	↔ 4-8	↔
32 Bit	↔ 4-12	↔



	Lead Time (wk)	Price
8 Bit	↓ 16-20	↔
16 Bit	↓ 16-20	↔
32 Bit	↓ 16-20	↔
i.MX	↓ 16-20	↔
DSP	↓ 16-20	↔



	Lead Time (wk)	Price
MCUs	↓ 12-24	↔



	Lead Time (wk)	Price
8 Bit	↔ 12-16	↓
16 Bit	↔ 12-16	↓
32 Bit	↔ 12-18	↓



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## Program. Logic



	Lead Time (wk)	Price
Program. Logic	↔ 4-14	↔



	Lead Time (wk)	Price
Program. Logic	↔ 3-15	↔

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## Logic

No significant changes in pricing and lead time, and no adjustments are expected.

**nexperia**

	Lead Time (wk)	Price
Standard Logic	↔ 8-12	↔

 **SGMICRO**

	Lead Time (wk)	Price
Standard Logic	↔ 14-16	↔

**onsemi**

	Lead Time (wk)	Price
Standard Logic	↔ 8-20	↔

**TOSHIBA**

	Lead Time (wk)	Price
Standard Logic	↔ 14-18	↔