Commercial News

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

Analog

High-End: Lead times declining
Commodities: Recovered lead times in general, no big price movements expected. Some price alignments are expected though due to increased market competition.
In General:
Extended reschedule and cancellation windows set on NCNR:
• **onsemi** rolling 60 days towards distribution

Infineon

	Lead Time (wk)	Price
Switched Voltage Regs	↓ 13-28	↔

power integrations

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

MICROCHIP

	Lead Time (wk)	Price
Data Converters	↓ 6-32	↔
Interface	↓ 6-28	↔
Op Amps High End	↓ 6-39	↔
Switched Voltage Regs	↓ 6-39	↔

SGMICRO

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

NXP

	Lead Time (wk)	Price
Interface	↓ 13-28	↔
Op Amps High End	↓ 18-36	↔

onsemi

	Lead Time (wk)	Price
Interface	↓ 16-29	↔
Op Amps Commodities	↓ 8-22	↔
Op Amps High End	↓ 10-26	↔
Switched Voltage Regs	↓ 10-42	↔
Voltage Regulators	↓ 10-45	↔

	Lead Time (wk)	Price
Data Converters	↓ 23-29	↔
Interface	↓ 22-30	↔
Op Amps Commodities	↓ 12-32	↔
Op Amps High End	↓ 14-39	↔
Switched Voltage Regs	↓ 14-30	↔
Voltage Regulators	↓ 13-34	↔

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

Discretes

The lead times for most devices normalized. In general, there are no big price movements but some price alignments are expected due to increased market competition. **onsemi** has a general NCNR window for rolling 180 days but for a wide range of Commodities the reschedule and cancellation window is reduced to 60 days (please see information in the pdf document).

ams OSRAM

	Lead Time (wk)	Price
Sensors	↔ 12-26	↔

BROADCOM

	Lead Time (wk)	Price
RF Devices	↔ 14-18	↔

Infineon

	Lead Time (wk)	Price
Bi-polar Power	↔ 6-8	↔
IGBT	↔ 12-50	↔
Power MOSFETs	↔ 11-50	↔
Rectifiers	↓ 12-38	↔
RF Devices	↔ 6-12	↔
Sensors	↔ 12-45	↔
Small Signal	↔ 6-24	↔
Thyristors	↔ 8-40	↔

nexperia

	Lead Time (wk)	Price
Bi-polar Power	↔ 6-16	↔
Power MOSFETs	↔ 8-20	↔
Rectifiers	↔ 6-12	↔
Small Signal	↔ 6-16	↔
TVS/Protection	↔ 6-12	↔
Zener Diodes	↔ 6-23	↔

NXP

	Lead Time (wk)	Price
RF Devices	↔ 10-14	↔
Sensors	↔ 15-39	↔

onsemi

	Lead Time (wk)	Price
Bi-polar Power *	↔ 8-18	↔
IGBT	↔ 10-38	↔
Power MOSFETs	↓ 8-38	↔
Rectifiers	↓ 8-27	↔
Small Signal *	↓ 8-23	↔
TVS/Protection *	↓ 8-20	↔
Zener Diodes *	↔ 8-20	↔

* 60 days re-schedule and cancellation window

STMicroelectronics

	Lead Time (wk)	Price
Bi-polar Power	↔ 14-16	↔
IGBT	↔ 14-50	↔
Power MOSFETs	↓ 12-50	↔
Rectifiers	↓ 12-39	↔
Small Signal	↔ 14-25	↔
Thyristors	↓ 10-29	↔
TVS/Protection	↓ 10-25	↔

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TAIWAN SEMICONDUCTOR

	Lead Time (wk)		Price
Power MOSFETs	↔	**12-22**	↔
Rectifiers	↔	**6-18**	↔
Small Signal	↔	**12-18**	↔
TVS/Protection	↔	**8-16**	↔
Zener Diodes	↔	**8-18**	↔

TOSHIBA

	Lead Time (wk)		Price
Power MOSFETs	↔	**14-36**	↔

VISHAY

	Lead Time (wk)		Price
Power MOSFETs	↓	**8-50**	↔
Rectifiers	↓	**8-30**	↔
Small Signal	↓	**8-22**	↔
Thyristors	↔	**15-20**	↔
TVS/Protection	↓	**8-20**	↔
Zener Diodes	↔	**8-28**	↔

Commercial News

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 planning demand properly.
General situation:
Price and lead time levels highly depend on supplier and product technology. Robust trend for increasing price levels and lead times on latest technologies, first impact on legacy technologies.
DRAM: Pricing and lead times increasing - impact on LPDDR4/DDR4 and newer technologies like DDR5/LPDDR5 - Legacy DRAM expected to follow short-term.
NAND Flash: Availability dependent on supplier. Increasing prices and lead times.
NOR Flash: Increasing prices and lead times.
SRAM: Supply constraints on specific technologies & suppliers.

dialog SEMICONDUCTOR
A Renesas Company

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

Infineon

	Lead Time (wk)	Price
FRAM	↔ 8-13	↔
nvSRAM	↔ 13-30	↔
Parallel NOR Flash	↔ 8-22	↔
Serial NOR Flash	↔ 8-14	↔
SRAM Asynch.	↔ 8-30	↔
SRAM Synch.	↔ 12-14	↔

ISSI / LUMISSIL Microsystems
A Division of ISSI

	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)	↑ 16-20	↑
NAND (SLC,MLC,TLC,3D)	↑ 16-52	↑
SSD	↔ 8-16	↑

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NAND Flash: Availability dependent on supplier. Increasing prices and lead times.
NOR Flash: Increasing prices and lead times.
SRAM: Supply constraints on specific technologies & suppliers.

Microchip

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

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	↑ 8-10	↑
Managed NAND (eMMC, UFS)	↔ 8-10	↑
SSD	↔ 8-10	↑

ST

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

Commercial News

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

Opto

LEDs:
Overall good supply situation.
ams OSRAM:
Allocation on OSLON Compact PL Gen2.

Coupler:
Lead times are partially decreasing.
Toshiba:
Allocation on TLP18*, TLP29*

ams OSRAM

	Lead Time (wk)	Price
LEDs High Power[x1]	↔ 10-14	↔
LEDs High Power General Lighting	↔ 10-14	↔
LEDs Infrared	↔ 12-38	↔
LEDs Low/Mid Power	↔ 10-28	↔
LEDs Low/Mid Power General Lighting	↔ 10-12	↔
LEDs Ultraviolet	↔ 6-8	↔

[x1] Alllocation OSLON Compact PL Gen2 (KW CELNM2.TK, KW2 CFLNM2.TK, KW3 CGLNM2.TK, KY CELNM2.FY)

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	↔ 12-36	↔
LEDs High Power	↔ 12-14	↔
LEDs Low/Mid Power	↔ 12-14	↔

EVERLIGHT

	Lead Time (wk)	Price
Coupler	↔ 18-30	↔
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	↔ 12-24	↔

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Opto

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Toshiba:
Allocation on TLP18*, TLP29*

RENESAS

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

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 [x1]	↔ 12-52	↔

[x1] Product families TLP18*, TLP29* on allocation

VISHAY

	Lead Time (wk)	Price
Coupler	↔ 12-48	↔
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

Microcontroller lead times are decreasing. **ST** still on allocation for several families.
Microchip: Lead times on 32bit and on old technologies stay on high level, for the others we see rapid improvements. Please check with your customers if they still want to go on with PSP.
ST changed the NCNR rules: NCNR until end of CY23 - no general NCNR for 2024.

ESPRESSIF

	Lead Time (wk)	Price
32 Bit	↓ 8-12	↔

Infineon

	Lead Time (wk)	Price
8 Bit	↔ 16-36	↔
16 Bit	↔ 16-36	↔
32 Bit	↔ 12-34	↔

MICROCHIP

	Lead Time (wk)	Price
8 Bit AVR	⇊ 7-20	↔
8 Bit PIC	⇊ 4-12	↔
16 Bit	⇊ 5-13	↔
32 Bit	↑ 8-36	↔

NXP

	Lead Time (wk)	Price
8 Bit	↓ 22-36	↔
16 Bit	↓ 22-36	↔
32 Bit	↓ 22-36	↔
i.MX	↓ 22-36	↔
DSP	↓ 22-36	↔

RENESAS

	Lead Time (wk)	Price
MCUs	↓ 12-24	↔

ST

	Lead Time (wk)	Price
8 Bit	↓ 52	↓
16 Bit	↔ 16-20	↓
32 Bit	↔ 16-20	↓

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Program. Logic

MICROCHIP

	Lead Time (wk)	Price
Program. Logic	↔ 4-36	↔

AMD

	Lead Time (wk)	Price
Program. Logic	⇊ 23-39	↔

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

Logic

The lead times have reached a normal level again and there are no significant price fluctuations. Some price adjustments are expected due to increased market competition.
onsemi reduced the NCNR window to 60 days.

nexperia

	Lead Time (wk)	Price
Standard Logic	↔ 6-12	↔

SGMICRO

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

onsemi

	Lead Time (wk)	Price
Standard Logic	↓ 8-22	↔

TOSHIBA

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