Commercial News

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

Analog

High-End: Lead times on a high level, first signs of possible slight lead time reductions
Commodities: Prices still partially increasing, first signs of possible lead time reductions
In General: • Extended reschedule and cancellation windows set on NCNR:
• for STM until end of CY2022 towards distribution
• for ONS rolling 180 days towards distribution

Infineon

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

MICROCHIP

	Lead Time (wk)	Price
Data Converters	↔ 43-52	↑
Interface	↔ 43-52	↑
Op Amps High End	↔ 46-52	↑
Switched Voltage Regs	↔ 46-52	↑

NXP

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

onsemi

	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	↑

life.augmented

	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	↑

EBV Elektronik
An Avnet Company

September 2022

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Discretes

The Semiconductor market worldwide continues to be tight, the lead times are still on an elevated level but declining slightly in some areas. **STMicroelectronics** orders are NCNR until end of CY22, **onsemi** has a general NCNR window for rolling 180 days and **Nexperia** has an extended reschedule and cancellation window of 90 days for standard devices.

ams OSRAM

	Lead Time (wk)	Price
Sensors	↔ 18-40	↔

BROADCOM

	Lead Time (wk)	Price
RF Devices	↔ 22-52	↔

Infineon

	Lead Time (wk)	Price
Bi-polar Power	↔ 45-52	↔
IGBT	↔ 26-52	↑
Power MOSFETs	↔ 31-52	↑
Rectifiers	↔ 20-52	↔
RF Devices	↔ 16-52	↔
Sensors	↔ 28-52	↔
Small Signal	↔ 41-52	↔
Thyristors	↔ 18-52	↔

nexperia

	Lead Time (wk)	Price
Bi-polar Power	↔ 15-30	↔
Power MOSFETs	↔ 22-39	↑
Small Signal	↔ 12-30	↑
TVS/Protection	↔ 12-30	↔
Zener Diodes	↔ 10-29	↑

NXP

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

onsemi

	Lead Time (wk)	Price
Bi-polar Power	↔ 30-52	↑
IGBT	↔ 39-52	↑
Power MOSFETs[x1]	↔ 32-52	↑
Rectifiers	↔ 26-52	↑
Small Signal	↔ 24-52	↑
TVS/Protection	↔ 20-52	↑
Zener Diodes[x1]	↔ 24-52	↑

x1 for AECQ applications please use the new Q-versions

STMicroelectronics

	Lead Time (wk)	Price
Bi-polar Power	↔ 24-30	↔
IGBT	↔ 46-52	↔
Rectifiers	↔ 45-52	↔
Small Signal	↔ 45-52	↔
Thyristors	↔ 36-52	↔
TVS/Protection[x1]	↔ 30-52	↔

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TOSHIBA

	Lead Time (wk)		Price
Power MOSFETs	↔	30-52	↔

VISHAY

	Lead Time (wk)		Price
Power MOSFETs	↔	24-52	↔
Rectifiers	↔	22-52	↔
Small Signal	↔	28-52	↔
Thyristors	↔	26-52	↔
TVS/Protection	↔	25-52	↔
Zener Diodes	↔	22-52	↔

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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:
Price and lead time levels depend on product technology. Improving availabilities, pricing peaks past

DRAM: Supply improving, lead times stabilized
NAND Flash: Supply improving, lead times stabilized, supply constraints on specific suppliers
NOR Flash: Supply constrained, Shanghai lockdown impacts supply, lead times stabilized
SRAM: Supply constraints on specific technologies & suppliers

dialog SEMICONDUCTOR
A Renesas Company

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

FUJITSU

	Lead Time (wk)	Price
FRAM	↑ 24-30	↑

Infineon

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

[x1] Allocation

ISSI

	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)[x1]	↔ 40	↔
NAND (SLC,MLC,TLC,3D)	↔ 16-24	↔
Parallel NOR Flash[x1]	↔ 14-18	↔
SDRAM/mobile SDRAM	↔ 12-36	↔
Serial NOR Flash[x1]	↔ 20-40	↔
SRAM Asynch.	↔ 8-12	↔
SRAM Synch.	↔ 8-12	↔

[x1] Allocation

KIOXIA

	Lead Time (wk)	Price
Managed NAND (eMMC, UFS)	↔ 24-36	↑
NAND (SLC,MLC,TLC,3D)	↑↑ 20-52	↑
SSD	↔ 12-16	↔

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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	↔	20-24	↔
DDR2/LPDDR2	↔	20-24	↔
DDR3/DDR3L	↔	24-28	↔
DDR4/LPDDR4	↑	24-28	↔
Managed NAND (eMMC, UFS)	↑	24-28	↑
microSD	↔	20-24	↔
NAND (SLC,MLC,TLC,3D)	↑	24-28	↔
Parallel NOR Flash	↑	52	↑
SDRAM/mobile SDRAM	↔	20-24	↔
Serial NOR Flash	↑	52	↑
SSD	↔	20-24	↔

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[x1]	↑	14-20	↔
DDR4/LPDDR4[x1]	↔	10-12	↔
Managed NAND (eMMC, UFS)[x1]	↔	12-16	↔
SSD[x1]	↔	10-12	↔

[x1] Allocation

life.augmented

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

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Opto

Partially falling trend on lead times.
ams OSRAM: Some LED product families are still on allocation. Partially price increases.
ONS: NCNR until end of CY2022
Osram DS: Very constraint supply on LED Drivers

ams OSRAM

	Lead Time (wk)		Price
LED's High Power	↔	12-16	↔
LEDs High Power General Lighting	↓	12-16	↔
LEDs Infrared[x1]	↔	12-38	↔
LEDs Low/Mid Power	↔	12-16	↔
LEDs Low/Mid Power General Lighting	↔	10-12	↑

[x1] 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	↔	6-8	↑

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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Opto

Partially falling trend on lead times.
ams OSRAM: Some LED product families are still on allocation. Partially price increases.
ONS: NCNR until end of CY2022
Osram DS: Very constraint supply on LED Drivers

OSRAM

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

RENESAS

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

SAMSUNG

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

TOSHIBA

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

VISHAY

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

[x1] 0805 SMD up to 35 weeks; IR receiver up to 18 weeks

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MCU & DSP

Microcontroller lead times are still at a very high level.
NXP is at 30-50 weeks, **REN** is at 30-34 weeks, **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 CY22.

Infineon

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

Microchip

	Lead Time (wk)	Price
8 Bit AVR	↓ 46-80	↑
8 Bit PIC	↔ 52-62	↑
16 Bit	↔ 17-75	↑
32 Bit	↓ 45-81	↑

NXP

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

Renesas

	Lead Time (wk)	Price
MCUs	↑ 30-34	↑

STM

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

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Program. Logic

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

MICROCHIP

	Lead Time (wk)	Price
Program. Logic	↔ 31-77	↑

AMD XILINX

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

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Logic

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nexperia

	Lead Time (wk)	Price
Standard Logic	↔ **22-49**	↑

TOSHIBA

	Lead Time (wk)	Price
Standard Logic	↔ **40-52**	↔

onsemi

	Lead Time (wk)	Price
Standard Logic	↔ **30-52**	↑