Commercial News

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

Analog

High-End: Lead times are expected to increase short-term. Standard level is 8 – 20 weeks.
Commodities: Lead times are increasing across the board; prices remain stable.

Infineon

	Lead Time (wk)	Price
Switched Voltage Regs	↔ 8-16	↔

maxim integrated

	Lead Time (wk)	Price
Data Converters	↔ 7-8	↔
Interface	↔ 7-8	↔
Interface (High End)	↔ 7-8	↔
Op Amps High End	↔ 7-8	↔
Op Amps Commodities	↔ 7-8	↔
Switched Voltage Regs	↔ 7-8	↔
Voltage Regulators	↔ 7-8	↔
Peripherals	↔ 7-8	↔

Microchip

	Lead Time (wk)	Price
Data Converters	↔ 8-12	↔
Interface	↔ 8-12	↔
Op Amps High End	↑ 8-16	↔
Switched Voltage Regs	↔ 8-12	↔

NXP

	Lead Time (wk)	Price
Interface	↔ 8-10	↔
Op Amps High End	↔ 10-20	↔

ON Semiconductor

	Lead Time (wk)	Price
Interface	↑ 8-12	↔
Op Amps High End	↔ 10-20	↔
Op Amps Commodities	↑ 6-26	↔
Switched Voltage Regs	↑ 8-16	↔
Voltage Regulators	↑ 6-26	↔

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	Lead Time (wk)	Price
Data Converters	↔ 8-16	↔
Interface	↑ 12-16	↔
Op Amps High End	↑ 8-22	↔
Op Amps Commodities	↑ 12-16	↔
Switched Voltage Regs	↑ 8-16	↔
Voltage Regulators	↑ 12-16	↔

Commercial News

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

Discretes

Lead times are rising due to overall increasing requirement. NXP pressure and motion sensors are facing capacity constraints due to a strong increase in demand. It is recommended to place long term backlog as further increase of lead times is expected.

ams
www.ams.com

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

BROADCOM

	Lead Time (wk)	Price
RF Devices	↑ 8-24	↔

Infineon

	Lead Time (wk)	Price
Bi-polar Power	↔ 7-10	↔
Thyristors	↑ 10-32	↔
Power MOSFETs	↑ 14-36	↔
Rectifiers	↑ 14-36	↔
Small Signal	↑ 8-20	↔
IGBT	↔ 12-32	↔
RF Devices	↔ 10-26	↔
Sensors	↔ 16-30	↔

maxim integrated

	Lead Time (wk)	Price
Sensors	↔ 6-8	↔

nexperia

	Lead Time (wk)	Price
Bi-polar Power	↑ 8-18	↔
Small Signal	↑ 6-18	↔
TVS/Protection	↑ 8-26	↔
Power MOSFETs[x1]	↑ 14-28	↔
Zener Diodes	↑ 6-18	↔

[x1] critical supply for SOT1205 and SOT1210

NXP

	Lead Time (wk)	Price
RF Devices	↔ 12-24	↔
Sensors[x1]	↑ 8-40	↔

[x1] Pressure Sensors and Motion Sensors on shortage

ON Semiconductor

	Lead Time (wk)	Price
Bi-polar Power	↑ 10-26	↔
IGBT	↔ 15-48	↔
Power MOSFETs	↑ 10-38	↔
Rectifiers	↑ 10-31	↔
Small Signal	↑ 10-39	↔
TVS/Protection	↑ 8-36	↔
Zener Diodes	↑ 8-27	↔

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	Lead Time (wk)	Price
Bi-polar Power	↑ 12-18	↔
IGBT	↔ 30-42	↔
Power MOSFETs	↑ 15-39	↔
Rectifiers[x1]	↑ 11-31	↔
Small Signal	↑ 14-27	↔
Thyristors	↑ 11-27	↔
TVS/Protection[x1]	↑ 13-27	↔

[x1] extended lead times for AECQ versions

Commercial News

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Discretes

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TOSHIBA

	Lead Time (wk)	Price
Power MOSFETs	↑ 14-28	↔

VISHAY

	Lead Time (wk)	Price
Power MOSFETs	↑ 11-30	↔
Rectifiers[x1]	↑ 12-37	↔
Small Signal	↑ 10-20	↔
Thyristors	↑ 20-35	↔
TVS/Protection	↑ 12-28	↔
Zener Diodes	↑ 10-23	↔

[x1] extended lead times for selected high power products

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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
DRAM: Increasing lead times; price trends up, esp. on DDR4/LPDDR4 and DDR3
NAND Flash: Stable availability and lead times; pricing flat
SRAM & NOR Flash: Stable pricing and availability on SRAM, NOR Flash with increasing lead times

Adesto

	Lead Time (wk)	Price
Serial NOR Flash	↑ 12-20	↔

FUJITSU

	Lead Time (wk)	Price
FRAM	↔ 16-20	↔

Infineon

	Lead Time (wk)	Price
FRAM	↔ 8-28	↔
nvSRAM	↔ 8-28	↔
Parallel NOR Flash	↔ 12-14	↔
Serial NOR Flash	↑ 16-20	↔
SRAM Asynch.	↔ 12-16	↔
SRAM Synch.	↔ 12-16	↔

ISSI

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

KIOXIA

	Lead Time (wk)	Price
NAND (SLC,MLC,TLC,3D)	↔ 10-12	↔
Managed NAND (eMMC, UFS)	↔ 10-12	↔
SSD	↔ 10-12	↓

MICROCHIP

	Lead Time (wk)	Price
EEprom	↔ 5-17	↔
Eprom	↔ 15-16	↔
Serial NOR Flash	↔ 6-15	↔

Commercial News

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

Memory

ALL PRICE TENDENCIES ARE INDICATED IN USD
DRAM: Increasing lead times; price trends up, esp. on DDR4/LPDDR4 and DDR3
NAND Flash: Stable availability and lead times; pricing flat
SRAM & NOR Flash: Stable pricing and availability on SRAM, NOR Flash with increasing lead times

Micron

	Lead Time (wk)	Price
DDR/mobile DDR	↔ 8-12	↔
DDR2/LPDDR2	↔ 8-12	↔
DDR3/DDR3L	↑ 8-12	↑
DDR4/LPDDR4	↑ 10-14	↑
Managed NAND (eMMC, UFS)	↑ 12-16	↔
microSD	↔ 10-14	↔
NAND (SLC,MLC,TLC,3D)	↔ 10-14	↔
Parallel NOR Flash	↑ 12-16	↔
SDRAM/mobile SDRAM	↔ 8-12	↔
Serial NOR Flash	↑ 6-15	↔
SSD	↔ 10-14	↓

ON Semiconductor

	Lead Time (wk)	Price
EEprom	↔ 7-21	↔
Serial NOR Flash	↔ 7-11	↔

Renesas

	Lead Time (wk)	Price
EEprom	↔ 8-12	↔
FIFO	↑ 14-18	↑↑
SRAM Asynch.	↑ 14-18	↑↑
SRAM Multiport	↑ 14-18	↑↑
SRAM Synch.	↑ 14-18	↑↑

Samsung

	Lead Time (wk)	Price
DDR2	↔ 10-12	↔
DDR3/DDR3L	↑ 10-12	↔
DDR4/LPDDR4	↑ 10-12	↔
Managed NAND (eMMC, UFS)	↔ 10-12	↔
SSD	↔ 10-12	↔

STMicroelectronics

	Lead Time (wk)	Price
EEprom	↔ 3-26	↑
NVRAM	↔ 14-22	↔

Commercial News

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

Opto

The lead times are increasing; some product lines are already going on allocation. Prices are partly increasing. Long term demand scheduling is recommended.

bridgelux

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

BROADCOM

	Lead Time (wk)		Price
Coupler	↑	14-26	↑
LEDs High Power	↔	10-14	↔
LEDs Low/Mid Power	↑	10-14	↔

EVERLIGHT

	Lead Time (wk)		Price
Coupler	↑↑	8-24	↔
LED's High Power	↔	8-10	↔
LEDs Infrared	↑	6-18	↑
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	↑	6-16	↑
LEDs Low/Mid Power General Lighting	↔	6-8	↔
LEDs Ultraviolet	↔	6-8	↔

ON Semiconductor

	Lead Time (wk)		Price
Coupler	↔	6-12	↔

Commercial News

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

Opto

The lead times are increasing; some product lines are already going on allocation. Prices are partly increasing. Long term demand scheduling is recommended.

OSRAM

	Lead Time (wk)	Price
LEDs low/mid Power[x1]	↑ 10-16	↑
LED's High Power	↑ 10-16	↔
LEDs High Power General Lighting	↔ 6-12	↔
LEDs Infrared	↔ 8-16	↔
LEDs Low/Mid Power General Lighting	↑ 6-12	↔

[x1] * TOPLED LS T67F, LA E67F, LA A67F are on allocation
* Topled and Topled Black Surface LW TVSG, Lx T68x, Lx TWTG 20-24 weeks
* Power TOPLED with lens Lx E63x; Lx E65x 18-20 weeks
* 6-lead MULTILED LxTB G6xG, Lxxx G6Sx, LRTB GVSG on request
* KRTBLSLP 8-10 weeks
* LG L29K 14-16 weeks
* SIDELED Lx A6xx 10-12 weeks
* Svnios P2720 Kx DMLx3x 16-20 weeks

RENESAS

	Lead Time (wk)	Price
Coupler	↑ 12-18	↑↑

SAMSUNG

	Lead Time (wk)	Price
LEDs low/mid Power	↑ 6-8	↔
LED's High Power	↔ 5-6	↔
LEDs High Power General Lighting	↔ 6-8	↔
LEDs Low/Mid Power General Lighting[x1]	↑ 6-8	↔

[x1] LM301B 10-12 weeks

TOSHIBA

	Lead Time (wk)	Price
Coupler	↑↑ 12-36	↔

VISHAY

	Lead Time (wk)	Price
Coupler	↑ 8-36	↔
LED's High Power	↔ 7-14	↔
LEDs Infrared[x1]	↑ 6-26	↑
LEDs low/mid Power	↑ 6-12	↔
LEDs Ultraviolet	↔ 6-20	↔

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

Commercial News

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

MCU & DSP

Microcontroller lead times are increasing for most of our suppliers. NXP and STM see a very strong demand increase and capacities fully booked until mid of 2021.
NXP constraints/longer lead times on: Automotive Processors due to TSMC capacity constraints into Q4 affecting several technologies. Extended lead times on Digital Networking (P20xx and P50xx,LS1xx and LS2xx) at 26 weeks. Lead times on the entire NXP portfolio see a sharp increase.
STM STM32 F1,F3 series are on constraint supply. Rest of STM MCUs are in a range of 12-25 weeks. MCU capacity Q4 is entirely booked; Q1 CY21 almost fully booked.
This is again a call to action to bring in maximum demand visibility at least until June 2021.
REN standard lead time for MCUs is trending down to a range of 10-12 weeks, but automotive MCUs are getting tight in supply at a range of 26-30 weeks.
IDT will increase prices from January 2021 on.

Infineon

	Lead Time (wk)	Price
8 Bit	↔ 16-36	↔
16 Bit	↔ 12-36	↔
32 Bit	↔ 14-26	↔

Microchip

	Lead Time (wk)	Price
8 Bit AVR	↑ 6-24	↔
8 Bit PIC	↑ 14-22	↔
16 Bit	↑ 15-34	↔
32 Bit	↑ 13-35	↔

NXP

	Lead Time (wk)	Price
8 Bit	↑ 12-24	↔
16 Bit	↑↑ 12-26	↔
32 Bit	↑↑ 12-26	↔
i.MX	↑ 12-26	↔
DSP	↑ 8-18	↔

RENESAS

	Lead Time (wk)	Price
MCUs	↔ 10-30	↔

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	Lead Time (wk)	Price
8 Bit	↑ 14-18	↔
16 Bit	↑ 12-25	↔
32 Bit	↑↑ 12-40	↔

Commercial News

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

Program. Logic

Xilinx still has extended lead times on following families: 2VP40* 29 weeks, 3S1600E* 25 weeks, XAZU4EV, XAZU5EV, ZU4CG/EG/EV,ZU5CG/EG/EV all 24 weeks, ZU27DR/ZU25DR to 23 weeks, XA3S1500*/ XC3S1500* 19 weeks Many other families are now up to a range of 14-18 weeks. We strongly recommend to talk to customers to receive long-term production forecasts to be able to secure capacity.

MICROCHIP

	Lead Time (wk)	Price
Program. Logic	↑ 12-20	↔

XILINX

	Lead Time (wk)	Price
Program. Logic	↑ 10-29	↑

Commercial News

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

Logic

Lead times are still increasing.

nexperia

	Lead Time (wk)	Price
Standard Logic	↑ 12-22	↔

ON Semiconductor

	Lead Time (wk)	Price
Standard Logic	↑ 12-36	↔

TOSHIBA

	Lead Time (wk)	Price
Standard Logic	↑ 12-26	↔