



Supplier Trend:

Supplier	Content
	Still supplier of Analog products with best leadtimes in the market, however we see these extending now.
	SRAM prices going up, leadtime 12-16 weeks, secure your supply.
	Supply situation stabilising at 23 weeks leadtime. We expect overall improvement as of Q3. DSP leadtimes remain stable.
	Stable leadtimes with 14-16 weeks. Delivery constraints for SOT23 with 20 weeks.
	Good availability with flexibility on short term requests.
	Average of 21 weeks leadtime.
	Extended leadtimes of 16-18 weeks, supply worse for some parts. Very little stock available and no improvement in sight. Please place your orders now!
	Good supply with 8-10 weeks.
	On allocation until probably end of June.
	Leadtime 14 weeks. Issues on BGA packages. NAND flash on allocation.
	Commodities overall we see leadtimes at 20 weeks. For MCU supply situation stable at 16-20 weeks.
	Allocation-like situation remains for all products. Your anticipation is required in placing orders up to December 2010. Price trend up for Discrete & Logic.
	Good stock available at Silica for a wide range of MCU products. In general leadtime stable at 14-16 weeks. New! Silica distributor for Renesas Electronics (Immerg/NEC).
	No allocation, leadtime 8-10 weeks, occasional issues on BGA packages.
	Allocation or leadtimes up to 26 weeks across all products. Place your orders beyond Q3 to receive ST confirmation. Price trend up mostly in Analog & Logic. For MCU leadtime stabilised at 24 weeks.
	Allocation on Logic & Linear until Q3. Secure your demand with order placement until end of 2010. Price trend up in commodities Analog & Logic. MCU/DSP/Analog still show delivery constraints with an average of 20-24 weeks.
	70% of Xilinx product portfolio at 4 weeks, however leadtime up to 23 weeks for an increasing number of products. Most affected: Virtex 2 Pro, Virtex 4 and Virtex 5. New! Silica worked with Xilinx on proactive PO placement to cover new demand from distribution shift. Contact your local Silica office to book your orders now.

[Download the complete Trendliner \(pdf\)](#)

Analog:

Product Range	Supplier	Price Trend	Lead Time & Trend	Market Trend
Amplifiers	Maxim	→	16-18 ↑	Allocation in Low-End Commodities only for Amplifiers especially in SO and TSSOP-packages and for voltage regulators in OPAM and OPAK. Good inventory level at Silica for ST and TI.
	Analog Devices	→	4-6 →	
	Texas Instruments	→/↑	14-16 Allocation	
	STMicroelectronics	→/↑	14-16 Allocation	
	ON Semiconductor	→/↑	20 →/↑	
Voltage regulators	Diodes Inc	→	14-16 →	
	Maxim	→	16-18 ↑	
	Analog Devices	→	4-16 →	
	Texas Instruments	→/↑	14-16 Allocation	
	ON Semiconductor	→/↑	20 →/↑	
Converters	Diodes Inc	→	14-16 →	
	Infineon	→	14-16 →	
	STMicroelectronics	→/↑	20 Allocation	
	Maxim	→	18-20 ↑	
	Analog Devices	→	4-10 ↑	
Interface	ON Semiconductor	→/↑	14-16 →	
	STMicroelectronics	→	8-12 →	
	NXP	→	14-16 →	
	Texas Instruments	→	16-18 →	
	Maxim	→	18-20 ↑	
Switches	Analog Devices	→	6-8 →	
	ON Semiconductor	→	14-16 →	
	STMicroelectronics	→/↑	20 →/↑	
	NXP	→/↑	12-16 →	
	Texas Instruments	→/↑	14-16 →	
Power Mgt	Maxim	→	18-20 ↑	
	Analog Devices	→	4-12 ↑	
	ON Semiconductor	→/↑	14-16 →	
	STMicroelectronics	→	14-16 →	
	Texas Instruments	→	16-18 →	
Can transceiver	NXP	→	14 →/↑	PC482C25 LTB is now over (March 31st 2010). New die sampling week 35 - deliveries starting week 48. All other TJA104x up and running... but under capacity constraint.
Wireless	ST-Ericsson	→	20 ↑	Customer advised to forecast at least 20 weeks ahead

[Analog download](#)

Discrete:

Product Range	Supplier	Price Trend	Lead Time & Trend	Market Trend
Small Signal Diodes & Transistors	ON Semiconductor	→/↑	20 ↑	Shortage situation to stay throughout Q2 at least with tendency still up. SOD123 form on being under high capacity constraint. Think NXP and Panjit, may help sorting out shortage. Supply constraints on SOT363, SOD123, SOT23, SOT457 packages.
	NXP	→/↑	20 ↑	
	Diodes Inc	→	12 →	
	Infineon	→	20 ↑	
	Panjit	→	12 →	
Zener Diodes	ON Semiconductor	→/↑	20 ↑	
	NXP	→/↑	20 ↑	
	Panjit	→	14 →/↑	
	Diodes Inc	→	14 →/↑	
	ON Semiconductor	→	20 ↑	
Transient Voltage Suppressors	Diodes Inc	→	12 →/↑	
	NXP	→	10 →	
	Panjit	→	14 →/↑	
	STMicroelectronics	→/↑	14 →	
	ON Semiconductor	→	20 →/↑	
Rectifiers	Diodes Inc	→	12 ↑	
	NXP	→	16 →/↑	
	Panjit	→	14 →/↑	
	STMicroelectronics	→	14-20 →/↑	
	ON Semiconductor	→	14 →	
Bipolar Transistors	NXP	→	20 ↑	Stable
	Diodes Inc	→	12 →	
	STMicroelectronics	→	14-20 →	
	ON Semiconductor	→	20 →	
	Infineon	→	14 →	
MOS Transistors	NXP	→	20 ↑	MOSFET = 1 product equals 1 single customer. Supply situation remains very difficult. Required: Longterm visibility from customers to secure supply.
	International Rectifier	→	21 →	
	STMicroelectronics	→	16-20 →	
	ON Semiconductor	→	14 ↑	
	NXP	→	20 ↑	
Thyristors & Triacs	NXP	→	20 ↑	Sustained demand keep driving up LT. Shortage situation to stay over coming quarter.
STMicroelectronics	→	20 ↑		

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Logic:

Product Range	Supplier	Price Trend	Lead Time & Trend	Market Trend
Bipolar (TTL, S, LS, ALS, FAST)	Texas Instruments	→/↑	12 →	
CDI/HEF4000	Texas Instruments	→/↑	14-16 Allocation	Allocation valid till end of Q2 minimum, short supply likely to remain throughout 2010. Biggest issues in TSSOP, followed by SO packages. Signs of improvement for TI supply situation as of June. NXP good inventory situation at Silica.
	NXP	→/↑	14-16 →/↑	
	ON Semiconductor	→/↑	14-16 →/↑	
	STMicroelectronics	→/↑	14-16 →/↑	
	Texas Instruments	→/↑	14-16 Allocation	
CMOS 5V HCMCT - AC/ACT - AHC/ACT - VHC/VHCT	NXP	→/↑	14-16 →/↑	
	ON Semiconductor	→/↑	14-16 →/↑	
	STMicroelectronics	→/↑	14-16 →/↑	
	Texas Instruments	→/↑	12-14 →	
	NXP	→/↑	16-18 →/↑	
Single, Dual & Triple gates CMOS 5V HC/HCTV-G - AHC/AHCTV-G - VHC/VHCTV-G-VG	ON Semiconductor	→/↑	14-16 →/↑	
	STMicroelectronics	→/↑	14-16 →/↑	
	Texas Instruments	→/↑	12-14 →	
	NXP	→/↑	16-18 →/↑	
	ON Semiconductor	→/↑	14-16 →/↑	
Single, Dual & Triple gates Low voltage LVC/LX-LX10 AUCXG - AUPV-G - CBTVG	STMicroelectronics	→/↑	14-16 →/↑	
	ON Semiconductor	→/↑	12 →	
	Texas Instruments	→/↑	14-16 Allocation	
	NXP	→/↑	14-16 →/↑	
	ON Semiconductor	→/↑	14-16 →/↑	
ECL	ON Semiconductor	→/↑	12 →	Business as usual
CMOS 3V (Slow) LV-LVX-LVX	Texas Instruments	→/↑	14-16 Allocation	Allocation valid till end of Q2 minimum, short supply likely to remain throughout 2010. Biggest issues in TSSOP, followed by SO packages.
	NXP	→/↑	14-16 →/↑	
	ON Semiconductor	→/↑	14-16 →/↑	
	STMicroelectronics	→/↑	14-16 →/↑	
	Texas Instruments	→/↑	14-16 Allocation	
CMOS 3V (Fast) LVC-ALVC-LCX	NXP	→/↑	14-16 →/↑	
	ON Semiconductor	→/↑	14-16 →/↑	
	STMicroelectronics	→/↑	14-16 →/↑	
	Texas Instruments	→/↑	14-16 Allocation	
	NXP	→/↑	14-16 →/↑	
BiCMOS 3 & 5V ABT - LVT	Texas Instruments	→/↑	14-16 Allocation	
	NXP	→/↑	14-16 →/↑	

[Logic download](#)

MCU, MPU & DSP:

Product Range	Supplier	Price Trend	Lead Time & Trend	Market Trend
MCU	Renesas	→	14-16 →	Stable General supply constraint. ST87 and ST89 still badly affected, but leadtimes stabilising. Leadtimes continue to extend on many ranges. General leadtime extension across the range particularly on LQFP packages. Remain at 20 weeks for most products, very little availability from stock.
	STMicroelectronics	→	10-25 ↑	
	Freescale	→	20-25 ↑	
	NXP	→	16-20 ↑	
	Texas Instruments	→	20-24 →	
MPU	Microchip	→	8-10 →	Power Quicc, Coldfire, Power PC. Supply severely constrained with no improvement expected until Q2 2010.
	Freescale	→	20-25 ↑	
	Freescale	→	20-27 ↑	
	AMD	→	6-12 →	
	Intel	→	4 →	
Licenses	Microsoft	→	1 →	Good stock at Silica and 1 week leadtime.
DSP	Freescale	→	12-14 →	Some Boards still available on 4 weeks.
	Analog Devices	→	10 →	Stable
Sensors	Texas Instruments	→	20-24 →	Supply still very constrained.
	Freescale	→	20-24 ↑	Supply severely constrained with no improvement expected until Q2 2010.

[MCU MPU DSP download](#)

Memory:

Product Range	Supplier	Price Trend	Lead Time & Trend	Market Trend
SDRAM	Micron 64 Mb	→	Allocation ↑	Micron SDR 128 Mb now back on normal leadtimes. 256 Mb is on very tight supply. We have good stock position and prices on Hynix SDRAM products (Hynix do not make 512 Mb)
	Hynix 64 Mb	→	Obsolete	
	Micron 128 Mb	→	6-8 →	
	Hynix 128 Mb	→	6-8 →	
	Micron 256 Mb	→	Allocation ↑	
	Hynix 256 Mb	→	6-8 →	
	Micron 512 Mb	→	6-8 →	
DDR SDRAM	Micron 128 Mb	→	Obsolete	Micron recently moved DDR into allocation, the situation is very tight on the 256 Mb (MT46V16M16), while we have good stock availability on 512 Mb (MT46V32M16). Hynix - we have good price and stock availability on 256 Mb and 512 Mb
	Hynix 128 Mb	→	4 →	
	Micron 256 Mb	→	Allocation ↑	
	Hynix 256 Mb	→	6 →	
	Micron 512 Mb	→	Allocation ↑	
	Hynix 512 Mb	→	4 →	
	Micron 1Gb	→	Allocation ↑	
DDR2	Micron 256 Mb	→	Allocation ↑	Micron has recently removed 512 Mb from allocation. Our 1 Gb stock availability is good. We are sampling on new R revision now. Hynix - good stock availability on 512 Mb and 1 Gb.
	Hynix 512 Mb	→	6 →	
	Micron 1 Gb	→	Allocation →	
	Hynix 1 Gb	→	6 →	
	Micron 2 Gb	→	Allocation →	
DDR3	Micron 2 Gb	→	8 →	Short term supply issues on 110 nm parts, so 2 and N revisions. These should be cleared up in April. (Spansion will begin shipping from FAB25).
	Micron 2 Gb	→	Allocation →	
	Spansion -Q2 Mb	→	8-10 →	
	Spansion -Q2 Mb	→	8-10 →	
	Numonyx (STM type) -Q2 Mb	→	14 ↑	
NOR FLASH	Numonyx (STM type) -Q2 Mb	→	14 ↑	BGA package on extended leadtime (14-18 weeks)
	Micron	→	Obsolete	
	Numonyx (INTEL type) -Q2 Mb	→	12 ↑	
	Intel -Q2 Mb	→	12 →	
	Intel -Q2 Mb	→	12 →	
NAND FLASH	Numonyx	→	Allocation →	Allocation will remain into Q2, small denials will recover first May time!
	Micron	→	Allocation →	
Serial FLASH	Spansion	→	8 →	Warning - Cypress SRAM leadtimes are extending every week, strongly recommend placing orders early.
	Numonyx	→	14 ↑	
Low power SRAM	Cypress	→	12-16 →	Warning - Cypress SRAM leadtimes are extending every week, strongly recommend placing orders early.
	Renesas	→	12-14 →	
Fast SRAM	Renesas	→	8 →	We are now selling 4 Mb Renesas Fast (R1LR04x) revisions. These should be cleared up in April. (Spansion will begin shipping from FAB25).
	Cypress	→	12-16 →	
EPROM	STMicroelectronics	→	12-14 →	Cost of the UV lens has increased, STM are reflecting this in the resell prices.
EEPROM	STMicroelectronics	→	12-14 →	Excellent supply/price situation. New! SILICA now selling ROHM EEPROMs
	Catalyst	→	8 →	
	ROHM	→	6 →	
Microchip	→	6 →		

[Memory download](#)

Xilinx:

Product Range	Supplier	Price Trend	Lead Time & Trend	Market Trend
Virtex 4/5	Xilinx	→	8-23 ↑	Supply constraint continues on many parts particularly LX family.
Virtex 6	Xilinx	→	Allocation ↑	New Silicon becoming available but orders confirmed on a case by case basis.
Virtex	Xilinx	→	4-16 →	Extension to leadtime on some V2PRO families.
Spartan	Xilinx	→	4-8 →	
Spartan 6	Xilinx	→	10 →	Most new parts now available to order.
Mature FPGA and CPLDs	Xilinx	→	4-8 →	Last time buy on many mature products in October-November - Early review of potential requirements now is recommended.
ADS Boards	Xilinx	→	12 ↑	New Spartan 6 and Virtex 6 boards: due to start shipping now. Many mature boards near EOL and only available while stocks last!
Software	Xilinx	→	1 →	
Development Boards	Xilinx	→	8-10 ↑	Availability not yet confirmed on new 5s and V6 boards.
Cables and Accessories	Xilinx	→	4-4 →	

[Xilinx download](#)

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