



Analog | Discrete | Logic | MCU, MPU & DSP | Memory | Software | Xilinx

Hot supply situation continues throughout Q1

Dear Mr. Edwards,

Supply situation is still very tight, lead times are very long in general.

The most difficult situation overall is with Texas Instruments, STMicroelectronics, ON Semiconductor and Freescale. It is very unlikely supply situation will improve over Q1/2010.

At most suppliers this situation leads to slight price increases on the low cost/high runner parts.

In a better supply position we see NXP, Analog Devices, Maxim and Microchip. The hot delivery constraint situation with Xilinx since this summer is now cooling down.

Best regards,
Your Assets Team

Hot News:

On Semiconductor - declared allocation for Logic for SMA and SMB discrete parts
STMicroelectronics - leadtimes above 20 weeks increasing on STR7 and STR9ts
Texas Instruments - declared allocation for Logic and Standard Linear parts for DIP, SO, SSO and TSSO

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

Analog:

Product Range	Supplier	Price Trend	Lead Time & Trends	Market Trend
Amplifiers	Texas Instruments	→/↑	12 weeks →	Demand drove up LT further last few weeks. Allocation for S08 & S014 on ST. Price increase for Q1
	STMicroelectronics	→/↑	12 weeks ↑	
	ON Semiconductor	→	12 weeks ↑	
	Diodes Inc	→	10 weeks →	
Voltage regulators	Texas Instruments	→/↑	14 weeks ↑	Demand drove up LT further last few weeks. Price increase for Q1
	ON Semiconductor	→	12 weeks ↑	
	Diodes Inc	→	10 weeks →	
	Infineon	→	12 weeks →	
Converters	STMicroelectronics	→/↑	15 weeks →	Supply remain tight Q1 onwards
	ON Semiconductor	→	12 weeks →	
	STMicroelectronics	→	12 weeks →	
	Texas Instruments	→	12 weeks →	
Interface	ON Semiconductor	→	10 weeks →	Supply remain tight Q1 onwards
	STMicroelectronics	→/↑	14 weeks →	
	Texas Instruments	→/↑	12 weeks →	
Switches	ON Semiconductor	→	10 weeks →	Supply remain tight Q1 onwards
	Texas Instruments	→	12 weeks →	
Power Mgt	ON Semiconductor	→	10 weeks →	Supply remain tight Q1 onwards
	STMicroelectronics	→	14 weeks →	
	Texas Instruments	→	14 weeks →	
	Infineon	→	12 weeks →	

[Analog download](#)

Discrete:

Product Range	Supplier	Price Trend	Lead Time & Trends	Market Trend
Small Signal Diodes & Transistors	ON Semiconductor	→	16 weeks →	Demand drove up LT further last few weeks. Now stabilised at high level!
	NXP	→	12 weeks →	
	Diodes Inc	→	10 weeks →	
	Infineon	→	12 weeks →	
	Panjit	→	10 weeks →	
Zener Diodes	ON Semiconductor	→	8 weeks ↑	Demand drove up LT further last few weeks. Now stabilised at high level! S0D123 from OnSemi being under high capacity constraint. Think NXP, PJT may help sorting out shortage
	NXP	→	8 weeks ↑	
	Panjit	→	8 weeks ↑	
	Diodes Inc	→	8 weeks ↑	
Transient Voltage Suppressors	ON Semiconductor	→	17 weeks ↑	Demand drove up LT further last few weeks mainly on SMA and SMB. Remember we have PANJIT free inventory on these parts.
	Diodes Inc	→	12 weeks ↑	
	NXP	→	10 weeks ↑	
	Panjit	→	10 weeks ↑	
Rectifiers	STMicroelectronics	→/↑	12 weeks ↑	Demand drove up LT further last few weeks mainly on SMA, SMB. Think we have PANJIT free inventory on those packages
	ON Semiconductor	→	17 weeks ↑	
	Diodes Inc	→	10 weeks ↑	
	NXP	→	12 weeks ↑	
Bipolar Transistors	ON Semiconductor	→	12 weeks →	Supply remain tight Q1 onwards
	NXP	→	15 weeks →	
	Diodes Inc	→	12 weeks →	
	STMicroelectronics	→	12 weeks →	
MOS Transistors	ON Semiconductor	→	14 weeks →	Supply remain tight Q1 onwards
	Infineon	→	14 weeks →	
	NXP	→	16 weeks →	
	International Rectifier	→	21 weeks →	
Thyristors & Triacs	ON Semiconductor	→	14 weeks ↑	High Back end (Test & Assembly) loading. Supply may become worse Q1 onwards
	NXP	→	14 weeks ↑	
	STMicroelectronics	→	16 weeks ↑	

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Logic:

Product Range	Supplier	Price Trend	Lead Time & Trends	Market Trend
Bipolar (ITL, S, LS, ALS, FAST)	Texas Instruments	↑	12 weeks →	
CD/HEF4000	Texas Instruments	→	14 weeks →	High demand kept driving up LT last few weeks. Now stabilised at high level!
	NXP	→	12 weeks →	
	ON Semiconductor	→	12 weeks →	
	STMicroelectronics	→	12 weeks →	
CMOS 5 V HC/HCT - AC/ACT - AHC/AHCT -VHC/VHCT	Texas Instruments	→	14 weeks →	High demand kept driving up LT last few weeks. Now stabilised at high level!
	NXP	→	12 weeks →	
	ON Semiconductor	→	12 weeks →	
Single, Dual & Triple gates CMOS 5 V HC/HCTg - AHC/AHCTg -VHC/VHCTg -Vg	Texas Instruments	→	14 weeks →	High demand kept driving up LT last few weeks. Now stabilised at high level!
	NXP	→	12 weeks →	
	ON Semiconductor	→	12 weeks →	
	STMicroelectronics	→	12 weeks →	
Single, Dual & Triple gates Low voltage LVCMOS - LXTG - AUCxG - AUPxG - CBTxG	Texas Instruments	→/↑	14 weeks →	High Back end (Test & Assembly) loading. Mainly S0T353 -S0T363-S0T753
	NXP	→/↑	14 weeks →	
	ON Semiconductor	→	10 weeks →	
	STMicroelectronics	→/↑	12 weeks →	
ECL	ON Semiconductor	→	12 weeks →	Business as usual
CMOS 3 V (Slow) LV-LVQ-LXX	Texas Instruments	→	14 weeks →	Extended supplier backlog coverage (6 Months) to cover demand
	NXP	→	12 weeks →	
	ON Semiconductor	→	12 weeks →	
	STMicroelectronics	→	12 weeks →	
CMOS 3 V (Fast) LVC-ALVC-LCX	Texas Instruments	→	14 weeks →	Extended supplier backlog coverage to cover demand
	NXP	→	12 weeks →	
	ON Semiconductor	→	12 weeks →	
	STMicroelectronics	→	12 weeks →	
BiCMOS 3 & 5V ABT - LVT	Texas Instruments	→	14 weeks →	Extended supplier backlog coverage (6 Months) to cover demand
	NXP	→	10 weeks →	

[Logic download](#)

MCU, MPU & DSP:

Product Range	Supplier	Price Trend	Lead Time & Trends	Market Trend
MCU	Renesas	→	12...16 weeks →	Leadtime continues to extend - STR7 and STR9 worst affected Still experiencing extreme constraint of supply on many parts General leadtime extension across the range Stable, but very long (20 weeks+) - Luminary product mostly on heavily constrained supply
	STMicroelectronics	→	8-20 weeks ↑	
	Freescale	→	20 weeks ↑	
	NXP	→	15...16 weeks ↑	
	Texas Instruments	↓	20 weeks →	
	Microchip	→	8 weeks →	
MPU	AMD	→	6...12 weeks →	Intel announce LTB on Pearl Creek/Skull trail desktop boards Dec 2009
	Intel	→	4 weeks →	
DSP	Freescale	→	12...14 weeks →	Some boards still available on 4 weeks
	Analog Devices	→	10 weeks →	
	Texas Instruments	→	20 weeks ↑	
Can Transceiver	NXP	→	14 weeks ↑	Old die withdrawn (DN64) LTB December 31 st 2009 - New part number needs to be approved (i.e. TJA1050Txx become TJA1050TVM)
Power Quic, Coldfire	Freescale	→	20 weeks →	Supply severely constrained with no improvement expected until Q1 2010
Power PC		→	20 weeks →	
Sensors		→	20 weeks →	

[MCU MPU DSP download](#)

Memory:

Product Range	Supplier	Price Trend	Lead Time & Trend	Market Trend
SDRAM	Micron 44 Mb	↑	8 weeks ↑	Micron SDR is on allocation with the exception of the 512 Mb. We have good stock positions and prices on Hynix SDR products (they do not make 512 M)
	Hynix 44 Mb	→	Obsolete ↑	
	Micron 128 Mb	→	12 weeks ↑	
	Hynix 128 Mb	→	4...6 weeks ↑	
	Micron 256 Mb	↑	12 weeks ↑	
	Hynix 256 Mb	→	4...6 weeks ↑	
	Micron 512 Mb	↑	6 weeks ↑	
DDR SDRAM	Micron 128 Mb	Obsolete	-	Micron recently moved DDR into allocation, the situation is very tight on the 256 M (MT46V16M16), while we have good stock availability on 512 M (MT46V32M16). Hynix - Pricing has increase slightly in the last 2 weeks, we have good price and stock availability
	Hynix 128 Mb	→	4 weeks ↑	
	Micron 256 Mb	↑	Allocation ↑	
	Hynix 256 Mb	↑	4 weeks ↑	
	Micron 512 Mb	↑	8 weeks ↑	
	Hynix 512 Mb	↑	4 weeks ↑	
	Micron 1 Gb	↑	Allocation ↑	
DDR2	Micron 256 Mb	→	Allocation ↓	Micron have recently removed 512 Mb from allocation. Our 1 Gb stock availability is good. Hynix: good stock availability on 512 Mb and 1 Gb. Overall some signs in the market that DDR2 pricing has peaked and will start coming back down (written 26 Nov).
	Hynix 256 Mb	→	Allocation ↓	
	Micron 512 Mb	→	8 weeks ↓	
	Hynix 512 Mb	→	4 weeks ↓	
	Micron 1 Gb	→	Allocation ↓	
	Hynix 1 Gb	↑	4 weeks ↓	
	Micron 2 Gb	↑	Allocation ↓	
NOR FLASH	Spansion -32 Mb	↑	10...12 weeks →	5 V LTB has been cancelled on most products in ind. temp package and faster than 90 ns. Contact your Account manager for clarification 128 Mb is going to be tight in Q1 We now have 5V parts in stock ready to sample
	Spansion -32 Mb	→	12...16 weeks ↑	
	Numonyx (STM type) -32 Mb	→	8 weeks →	
	Numonyx (STM type) -32 Mb	→	8 weeks →	
	Micron	→	Obsolete →	
	Intel	→	12 weeks →	
NAND FLASH	Numonyx	↑	Allocation →	Allocation will remain into Q1, small densities will recover first (march time) MLC prices are slightly down
	Micron	→	Allocation →	
Serial Flash	Spansion	→	6 weeks →	Longer leadtimes on the higher densities (8 Mb and above) We are now selling 4 Mb Renesas Fast (R1LR04x) Longer leadtimes on the higher densities (8 Mb and above)
	Numonyx	→	6 weeks →	
Low power SRAM	Cypress	↑	8...10 weeks ↑	Longer leadtimes on the higher densities (8 Mb and above) We are now selling 4 Mb Renesas Fast (R1LR04x) Longer leadtimes on the higher densities (8 Mb and above)
	Renesas	→	8...10 weeks ↑	
Fast SRAM	Renesas	→	8 weeks ↑	Longer leadtimes on the higher densities (8 Mb and above) We are now selling 4 Mb Renesas Fast (R1LR04x) Longer leadtimes on the higher densities (8 Mb and above)
	Cypress	↑	8 weeks ↑	
EPROM	STMicroelectronics	↑	12 weeks ↑	Cost of the UV lens has increased significantly, STM are reflecting this in the resell prices.
EEPROM	STMicroelectronics	→	8...12 weeks →	
Catalyst	Catalyst	→	8 weeks →	
	Microchip	→	6 weeks →	

[Memory download](#)

Software:

Product Range	Supplier	Price Trend	Lead Time & Trends	Market Trend
Xilinx Software	Xilinx	→	1 week →	
Microsoft Embedded licenses	Microsoft	→	1 week →	Good stock at Silica and 1 week leadtimes

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Xilinx:

Product Range	Supplier	Price Trend	Lead Time & Trends	Market Trend
Virtex 5	Xilinx	→	4...12 weeks ↓	Leadtimes back to 4...5 weeks in many cases but certain families remain tight with no improvement until Q1/2010
Virtex	Xilinx	→	4...6 weeks →	
Spartan	Xilinx	→	4...8 weeks ↓	Larger densities a little extended with recovery expected Dec 2009
Mature FPGA and CPLDs	Xilinx	→	4...8 weeks ↓	Purchase orders placed on parts obsolete in October have been confirmed on 20 weeks + leadtime
ADS Boards	Xilinx	→	8 weeks ↑	Availability not yet confirmed on new S6 and V6 boards - delivery not expected until Q1 2010 - Significant pruning on traditional boards many of which are now obsolete
Development Boards	Xilinx	→	8...10 weeks ↑	Availability not yet confirmed on new S6 and V6 boards - delivery not expected until Q1 2010
Cables and Accessories	Xilinx	→	8 weeks ↑	

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