















# Commercial News

September 2010

## ANALOG

























We still see capacity constraints, but prices remain stable for most of the analog product families. The delivery situation is slightly improving only at TI (still allocation on SLL). ST is on allocation for Op Amps and Voltage Regulators and Infineon is on allocation for TLE's. No improvement is expected during Q4/2010.

- Texas Instruments: Lead times are at 8-20 weeks; prices are stable.
- National Semiconductor: Lead times are at 12-16 weeks.
- ON Semiconductor: All linear families are at 15-20 weeks lead time; prices increased recently.
- STMicroelectronics: Allocation for analog; prices are stable.

Product Group	Supplier	Lead Time	Price	Special Note
Analog Switches	 VISHAY	→ 12-16 weeks	↑	-
Data Converters	 National Semiconductor	↑ 8-12 weeks	→	-
Data Converters	 TEXAS INSTRUMENTS	↓ 8-12 weeks	↓	-
Interface	 National Semiconductor	↑ 6-8 weeks	→	-
Interface	 TEXAS INSTRUMENTS	→ 18 weeks	→	-
Op Amps	 National Semiconductor	↑ 4-16 weeks	→	-
Op Amps	 TEXAS INSTRUMENTS	→ 21 weeks	→	-
Op Amps	 ST	→ Allocation	→	-
Op Amps	ON Semiconductor® 	→ 17-20 weeks	↑	-
Voltage Regulators	 National Semiconductor	↑ 8-16 weeks	→	-
Voltage Regulators	 ST	→ Allocation	→	-
Voltage Regulators	ON Semiconductor® 	→ 17-20 weeks	↑	-
















## DISCRETES

There have been no major changes in the market. Prices and lead times are stable at a high level.

Product Group	Supplier	Lead Time	Price	Special Note
Power MOSFETs	 TEXAS INSTRUMENTS	→ 8-12 weeks	→	-
Zener Diodes	 NXP	→ 16-24 weeks	→	-
Zener Diodes	ON Semiconductor®  ON	→ 20-26 weeks	→	-
Zener Diodes	 FAIRCHILD SEMICONDUCTOR®	→ 20-24 weeks	→	-
Bi-polar Power/Thyristors	 FAIRCHILD SEMICONDUCTOR®	→ 20-28 weeks	→	-
Bi-polar Power/Thyristors	 infineon	→ 20-24 weeks	→	-
Bi-polar Power/Thyristors	 NXP	→ 16-20 weeks	→	-
Bi-polar Power/Thyristors	ON Semiconductor®  ON	↓ 16-20 weeks	→	-
Bi-polar Power/Thyristors	 ST	↓ 20-24 weeks	→	-
IGBT	 FAIRCHILD SEMICONDUCTOR®	→ 24-30 weeks	→	-
IGBT	 infineon	→ 24-30 weeks	→	-
Power MOSFETs	 FAIRCHILD SEMICONDUCTOR®	→ 30-50 weeks	→	-
Power MOSFETs	 infineon	→ 24-28 weeks	→	-
Power MOSFETs	 ST	→ 20-30 weeks	→	-
Power MOSFETs	<b>TOSHIBA</b>	→ 14-18 weeks	→	-
Power MOSFETs	 VISHAY.	→ 30-40 weeks	→	There is lower lead time for halogene free dev.
RF Devices	 AVAGO TECHNOLOGIES	→ 6-8 weeks	→	-
RF Devices	 infineon	→ 18-24 weeks	→	-
RF Devices	 NXP	→ 14-16 weeks	→	-
RF Devices	 VISHAY.	→ 10-14 weeks	→	-
Rectifiers	 FAIRCHILD SEMICONDUCTOR®	→ 25-45 weeks	→	-
Rectifiers	 infineon	→ 16-20 weeks	→	-
Rectifiers	ON Semiconductor®  ON	→ 30-40 weeks	→	-
Rectifiers	 ST	→ 20-30 weeks	→	-
Rectifiers	 VISHAY.	→ 20-30 weeks	→	-























CONTINUATION >>

>> DISCRETES (CONTINUATION)

Product Group	Supplier	Lead Time	Price	Special Note
Sensors		→ 10-16 weeks	→	-
Sensors		→ 20-26 weeks	→	-
Sensors		→ 8-10 weeks	→	-
Small Signal		→ 36-40 weeks	→	-
Small Signal		→ 22-26 weeks	→	The most affected packages are: SOT23, SOT323, SOT363.
Small Signal		→ 24-28 weeks	→	-
Small Signal		→ 24-28 weeks	→	-
Small Signal		→ 24-30 weeks	→	-
Small Signal		→ 20-24 weeks	→	-
TVS/Protection		→ 20-26 weeks	→	-
TVS/Protection		↓ 16-20 weeks	→	-
TVS/Protection		→ 20-26 weeks	→	-
TVS/Protection		→ 14-16 weeks	→	-
TVS/Protection		→ 24-30 weeks	→	-
Zener Diodes		→ 16-18 weeks	→	-













## MEMORY

Atmel still has severe problems for all kinds of flash memories. There are still delivery constraints with Numonyx/Micron.

Supplier	Product Group	Lead Time	Price	Special Note
	Flash (NOR)	→ Allocation	→	The AT29 and AT49 series go obsolete; LTB is until September 2010; the lead time is 52 weeks.
	EEPROM	→	↑	New die shrinks are going to come for 24C02,C16,C32,C64, C512.
	EPROM	→	↑	-
	SRAM	→	→	We are offering and supporting synchronous and asynchronous SRAMs, Multiport SRAMs, parallel and serial NV-SRAMs and FIFOs.
	SDRAM	↓	→	-
	DDR	→	→	-
	DDR2	→	→	-
	EEPROM	↑↑	→	This division is going to be sold to Giantec this year.
	SRAM	↑	→	ISSI provides long-term availability for SRAMs. Great portfolio in synchronous SRAMs. New Lowpower 4 MB, 5 V, SOP samples and new PSEUDO SRAMs 32 MB and 64 MB samples are available.
ON Semiconductor 	EEPROM	→	→	-
	Flash (NOR)	→	→	-
	Flash (NAND)	→	→	-
	Flash (NOR)	→	→	-
	Flash (NAND)	↓	↓	-
	SDRAM	↓	↓	-
	DDR	↓	↓	-
	DDR2	↓	↓	-
	DDR3	↓	↓	-
	SRAM	↑	→	Some of the obsolete slow SRAMs are still available from our stock. Synchronous SRAMs are only based on NCNR commitment!
	Flash (NOR)	→	↑	AL008J, AL032D, 064N, 128P, 256, 512 are still on tight supply.
	EEPROM	↑	↑	-
	EPROM	↑	↑	Ceramic package and 3.3 V OTP will be discontinued.


## OPTO

Some of the Osram LEDs are still on allocation.

Product Group	Supplier	Lead Time	Price	Special Note
Coupler		↑ 6-16 weeks	→	There is a tight supply for some Gate Drivers (i.e.J312, 316J). Lead times for Avago Photo-Tx Optocoupler have now increased to more than 15 weeks.
Coupler		↑ 12-47 weeks	↑	-
Coupler	<b>TOSHIBA</b>	→ 14-28 weeks, up to allocation	↑	Opto Couplers are on allocation. Mini Flat IC couplers (TLP112/TLP113/TLP114/TLP115/TLP116) will be replaced by new items in new SO6 package. (See PCN X36-2010-05)
Coupler		↑ 6-28 weeks	→	SMD Coupler TCLTxxx and TCMTxxx are on allocation.
LED's		↑ 6-12 weeks	→	-
LED's		→ 8-16 weeks, allocation	→	Golden/Platinum Dragon, Dragon+, some TopLEDs, Power TopLEDs and Advanced Power TopLEDs, some SideLEDs and Ostar are on allocation.
LED's	<b>TOSHIBA</b>	→ 12 weeks	→	-
LED's		↑ 6-14 weeks, partially 20	↑	There is a price increase on all products.
LED's	<b>LUMINUS</b>	↑ 8-16 weeks	→	4000 K products are postponed until 2011. SBR-160 and SBM-160 are on hold until further notice.
LED's		↑ 8-16 weeks	→	-
Infrared		→ 8-27 weeks	→	-
Infrared		↓ 8-16 weeks	→	SFH4750/51 are on allocation.
Infrared		→ 5-17 weeks	→	-
Infrared		→ 12 weeks	→	-
Fiber-Optic		→ 6-12 weeks	→	-
Fiber-Optic	<b>TOSHIBA</b>	→ 12-16 weeks	→	-



## DSP

The supply from TI is still very constrained; a slight improvement is expected in Q4.

Product Group	Supplier	Lead Time	Price	Special Note
DSP		→ 4-18 weeks	→	-
DSP		→ 6-31 weeks	→	-

















## PROGRAMMABLE LOGIC

Altera supply is still very tight.

Product Group	Supplier	Lead Time	Price	Special Note
Program. Logic		→ 4-28 weeks	→	Effective July 3rd, 2010, Altera reduced the price for Arria II GX devices. EP4CE10 , EP4CE115, EP4CE15, EP4CE22, EP4CE30, EP4CE40, EP4CE55, EP4CE6, all packages, all speed grades, leaded and leadfree are on allocation.
Program. Logic		↑ Allocation	↑	Atmel allocates the following affected parts: ATF1502AS, ATF1502ASL, ATF16V8B, ATF16V8BQL , ATF22V10C, ATF22V10CQZ, ATF1504AS, ATF1504ASL and ATF1508AS, ATF1508ASL.
Program. Logic		↑ 10-20 weeks	→	-

## MCU

The supply situation is still critical at most of our suppliers, and we are still in some allocation scenarios. Our outlook is that the situation will slightly improve over the next months.

Supplier	Product Group	Lead Time	Price	Special Note
	AVR	↑↑ Partial allocation	→	-
	ARM	↑↑ Partial allocation	→	-
	Coldfire	→ 8-20 weeks	→	-
	Power Architecture	→ 4-22 weeks	→	-
	8 Bit	↓ 8-34 weeks	→	-
	16 Bit	↓ 8-26 weeks	→	-
	i.MX	→ 8-16 weeks	→	-
	MCUs	→ 14-20 weeks	→	-
	MCUs	→ 14-30 weeks	→	-
	ARM7/ARM9	→ 10-26 weeks	→	-
	8 Bit	→ 12-26 weeks	→	-
	Cortex	→ 14-22 weeks	→	-
	8 Bit	→ 14-22 weeks	→	-
	16 Bit	→ 14-22 weeks	→	-
	MSP430	→ 14-24 weeks	→	-
	Luminary	→ 12-24 weeks	→	-

## LOGIC

There is still very tight supply across all suppliers, but we see slight improvements on lead times. Prices are expected to remain stable short-term, but we expect to see some decreases long-term. Availability is improving at TI whereas lead times are increasing again on some NXP families, especially on TSSOP 14,16 and 56 / SO 14,16 and 20 / SOT 353 and 363.

Product Group	Supplier	Lead Time	Price	Special Note
Standard Logic		→ 12-20 weeks	→	-
Standard Logic		→ 12-30 weeks	→	-
Standard Logic		→ 12-20 weeks	→	-
Standard Logic		→ 12-24 weeks	→	-
Standard Logic		↓ 8-24 weeks	→	-