

CoreExpress®-ECO2

CoreExpress Module

Intel® Atom™ E6xx Series Processor



Features

Intel Atom E6xx Processor Series

Intel® Platform Controller Hub EG20T

512MB, 1GB, 2GB DDR2 RAM

PCI Express 3 x1 lanes

Single channel 18/24 bit LVDS, SDVO

SATA, Gigabit LAN, USB 2.0, CAN

Specifications

Board Format	CoreExpress, 58mm x 65mm
Processor	Intel Atom E6xx Processor E620T, E640T, E660T, E680T
Chipset	Intel® Platform Controller Hub EG20T 6x USB 2.0, 1x USB client, 2x SATA 1x Gigabit MAC: RGMII 1x SDIO, 1x CAN, SPI, I2C
RAM	512MB, 1GB, 2GB DDR2 RAM, 667 / 800 MHz
Graphics	Integrated Graphics Engine (SDVO, LVDS), Video Engine (H.264, H.263, MPEG2, MPEG4, VC1, WMV9) integrated memory controller, supports 3D, DirectX and OpenGL
SDVO	up to 1920 x 1280 @50 Hz Digital Display port for ADD2 card or SDVO-DVI transmitter on carrier
LVDS	18/24 bit single channel up to 1280 x 768 @60 Hz Display backlight support
USB	<ul style="list-style-type: none">• 6 USB 2.0 host ports, with boot device support• 1 USB 2.0 client
Ethernet	Controller integrated in chipset PHY on carrier required
SATA	2 SATA ports (3.0 Gb/s)
CAN	2.0B interface with up to 1Mbps Transceiver on carrier required

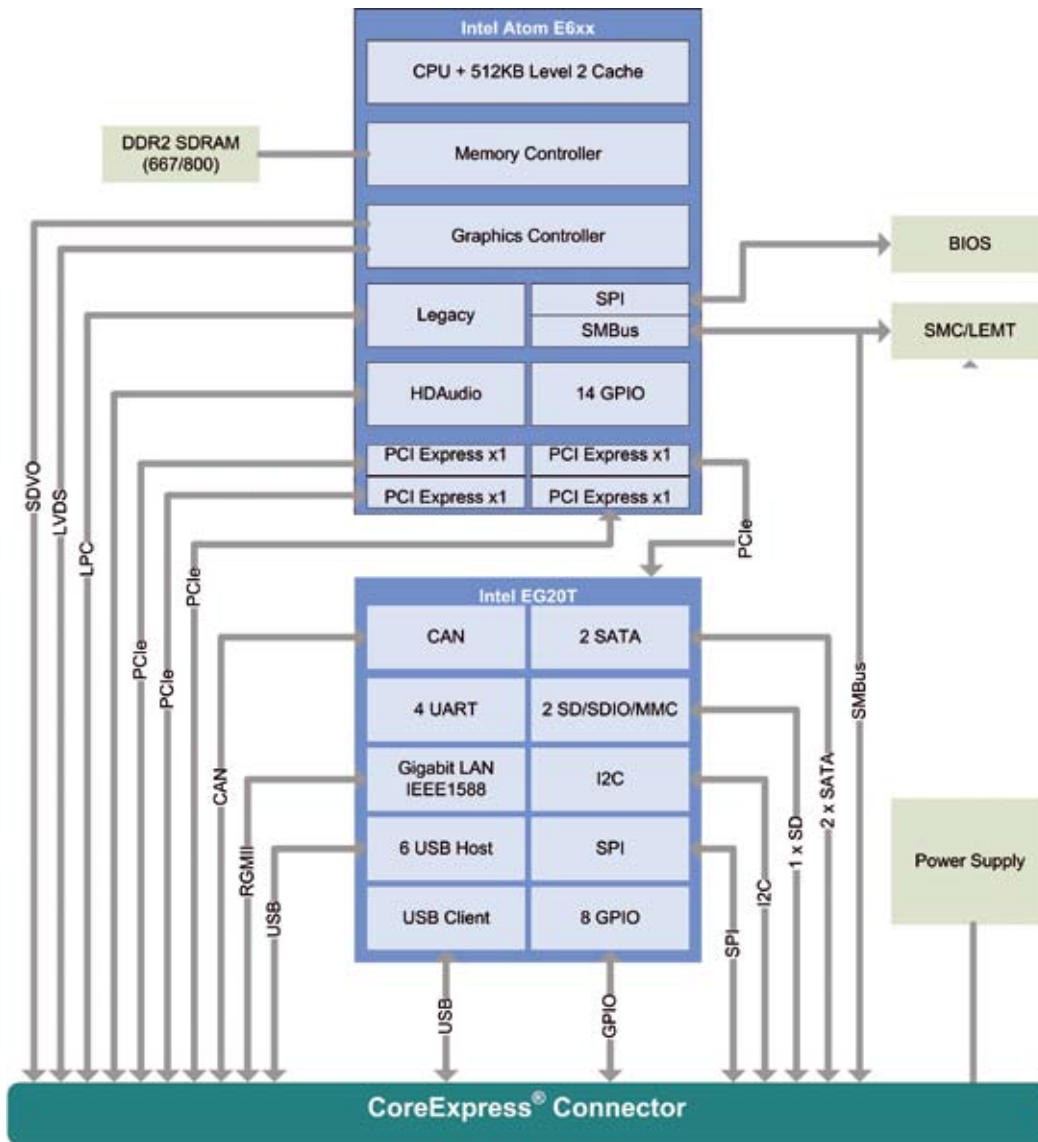
SDIO	8 bit, integrated in chipset
Audio	HDA link on CoreExpress connector Codec on carrier required
PCI Express Bus	PCI Express bus 3 x1 lanes
Power Supply	+5 V only. All necessary voltages are generated on-board.
Power Consumption	0.6GHz: 5.0W (approx.) 1.0GHz: 7.9W (max), 1.6GHz: 8.5W (max.)
Power Management	BIOS supports ACPI power saving modes
Status LED	Status (Service) S3 mode
Watchdog	Yes (LEMT)
Operating temperature	0°C...+60°C (commercial, all versions) -20°C...+60°C (industrial, all versions) -40°C...+85°C (extended, optional)
Cooling	Passive cooling possible Heat spreader is available
MTBF	228,412 hours @ 25°C
BIOS	Phoenix BIOS BIOS parameters are saved in Flash
LEMT	Yes, Condition Monitoring
Supported OS	Windows, Linux

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Block Diagram



Ordering Information

Ordering Number	Description
†13-0012-10	CoreExpress module with Intel Atom E620T processor, 0.6GHz, 512MB DDR2 RAM.
†13-0013-10	CoreExpress module with Intel Atom E640T processor, 1.0GHz, 1GB DDR2 RAM.
†13-0018-10	CoreExpress module with Intel Atom E680T processor, 1.6GHz, 2GB DDR2 RAM.

Note: † denotes the temperature range. Use 8 for industrial and 9 for extended temperature range. Other processor and memory configurations are available on request.

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