

Toucan-TC

COM Express Compact Module

Intel® Atom™ E6xx Series Processor



Features

Intel Atom E6xxT Processor Family

Intel® Platform Controller Hub EG20T

512MB, 1GB, 2GB DDR2 SDRAM

PCI Express 5 x1 lanes

Single channel 18/24 bit LVDS, SDVO

SATA, IDE, Gigabit LAN with IEEE1588, USB 2.0

Specifications

Board Format	COM Express Compact, 95 mm x 95 mm, type 2 pinout
Processor	Intel Atom E6xx Processor E620T, E640T, E660T, E680T
Chipset	Intel® Platform Controller Hub EG20T
RAM	512MB, 1GB, 2GB DDR2 SDRAM, 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 1280 x 1024 @85Hz Digital Display port for ADD2 card or SDVO-DVI transmitter on carrier board
LVDS	18/24 bit single channel up to 1280 x 768 @60Hz Display backlight support
USB	• 6 USB 2.0 host ports with boot device support • 1 USB 2.0 client
Ethernet	10/1000/1000 Mbps
SATA	3 SATA ports
IDE (PATA)	1 x EIDE, up to UDMA6, RAID 0/1 possible
SSD	SATA Solid State Disk (optional) 4, 8, 16, 32, 64 GB
SDIO	Integrated µSD slot
Audio	Intel High Definition Audio via external codec

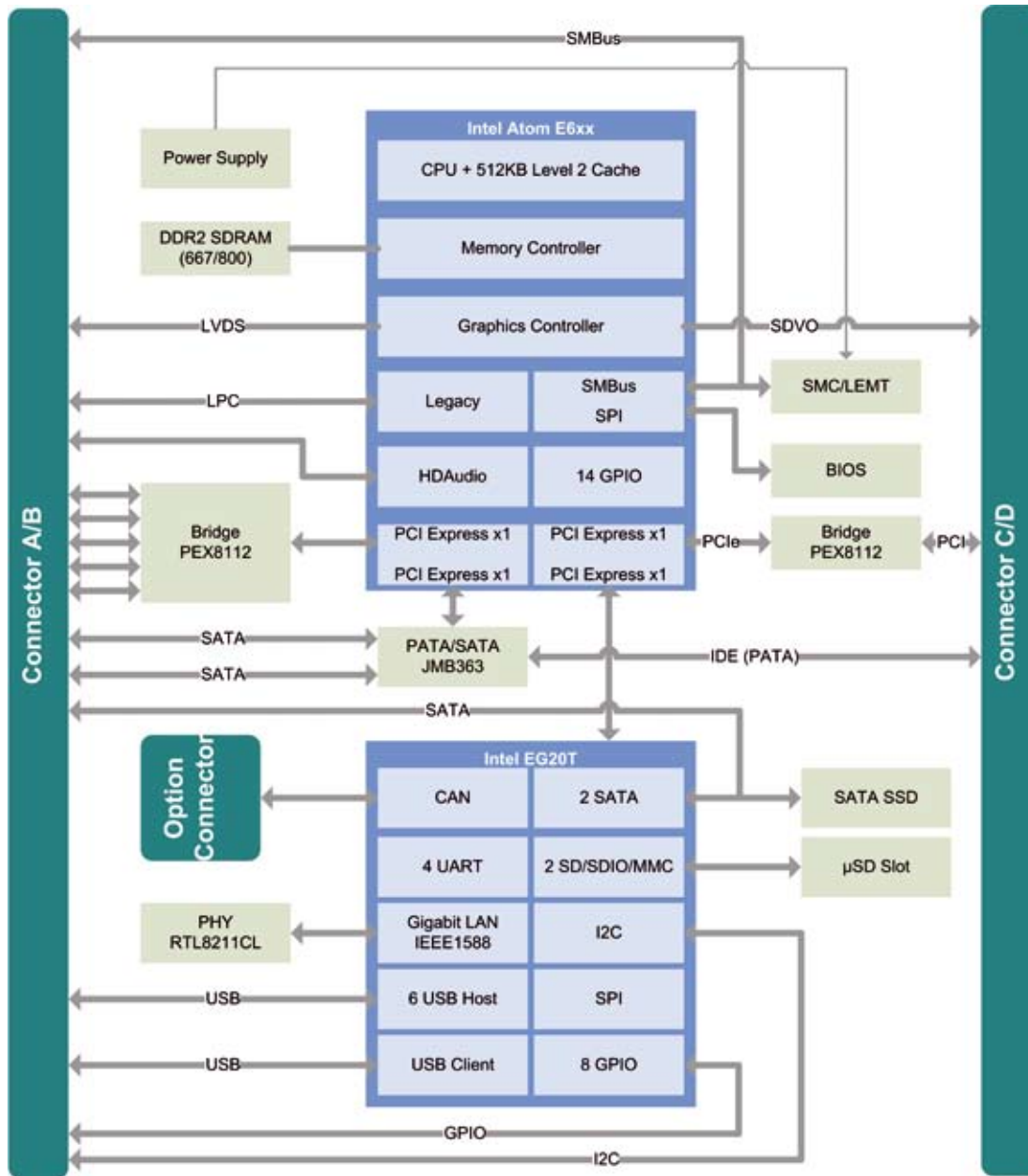
CAN Bus	Available on option connector Transceiver on carrier board is required
Serial	4 UARTs (TTL levels) on option connector Transceivers on carrier board are required
PCI Bus	PLX PEX8112 bridge
PCI Express Bus	PCI Express bus 5 x1 lanes
Power Supply	+12 V only. All necessary voltages are generated on-board.
Power Consumption	t.b.d. Live measurement values are available using LEMT
Power Management	BIOS supports ACPI power saving modes
Status LED	Status (Service) SD activity SATA activity
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	Using heatspreader
MTBF	156,076 hours @ 25°C
Shock & Vibration	t.b.d.
BIOS	Phoenix BIOS, Fail-Safe-BIOS BIOS parameters are saved in Flash
LEMT	Yes. Includes Condition Monitoring
Supported OS	Windows, Linux

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Block Diagram



Ordering Information

Ordering Number	Description
t.b.d.	COM Express module with Intel Atom E620T processor
t.b.d.	COM Express module with Intel Atom E640T processor
t.b.d.	COM Express module with Intel Atom E660T processor
t.b.d.	COM Express module with Intel Atom E680T processor