ETX-PVR

ETX® Module with Dual-Core Intel® Atom™ Dual Core Processor



Features

- Intel® Atom™ N455 power optimized, 1.66GHz processor
- Intel® Atom™ D525 performance optimized, dual-core 1.8GHz processor
- Up to 2GB DDR3 667MHz memory
- Onboard 10/100BASE-T Ethernet
- 4GB Solid State Storage
- Single Channel LVDS and VGA (1400 x 1050)
- Extreme Rugged™ operating temperature: -40°C to +85°C (optional)

Specifications

Core System

CPU	Intel® Atom™ N455, 1.66GHz, 6.5 W (1 core/2 threads)
	Intel® Atom™ D525, 1.8GHz, 13 W (2 cores/4 threads)
	Intel® Atom™ D425, 1.8GHz , 10 W (1 core/2 threads)
Cache	1GB, 8-way L2 cache for D525 dual-core processor
	512KB, 8-way L2 cache for N455/D425 single-core processor
DRAM	Up to 2GB Single Channel DDR3 667 SODIMM
Chipset	Intel® ICH8M Chipset
BIOS	AMI with CMOS backup in 8 Mbit SPI flash memory
Expansion Busses	32-bit PCI at 33MHz, ISA, LPC, SMBus, I²C

I/O Interfaces

IDE	Single Channel IDE
SATA	Two devices
USB	Four USB 2.0 ports
Storage	Onboard SSD (4GB)
Serial Ports	Two RS-232/422/485
	PS/2 keyboard and mouse
Audio	ALC 262 High Definition Audio codec

Ethernet

Intel® 82567V (10/100BASE-T) Ethernet Controller

Video

Intel® GMA 3150, DirectX 9 compliant Pixel Shader v2.0

Single Channel 18-bit LVDS (N450: 1280 x 800; D410, D510: 1366 x 768)

Analog VGA (N450: 1400 x 1050 @ 60Hz; D410, D510: 2048 x 1536 @ 60Hz)

Power

Input Power	AT mode (5V +/- 5%) and ATX mode
Power States	Supports S0, S3, S4, S5

Mechanical and Environmental

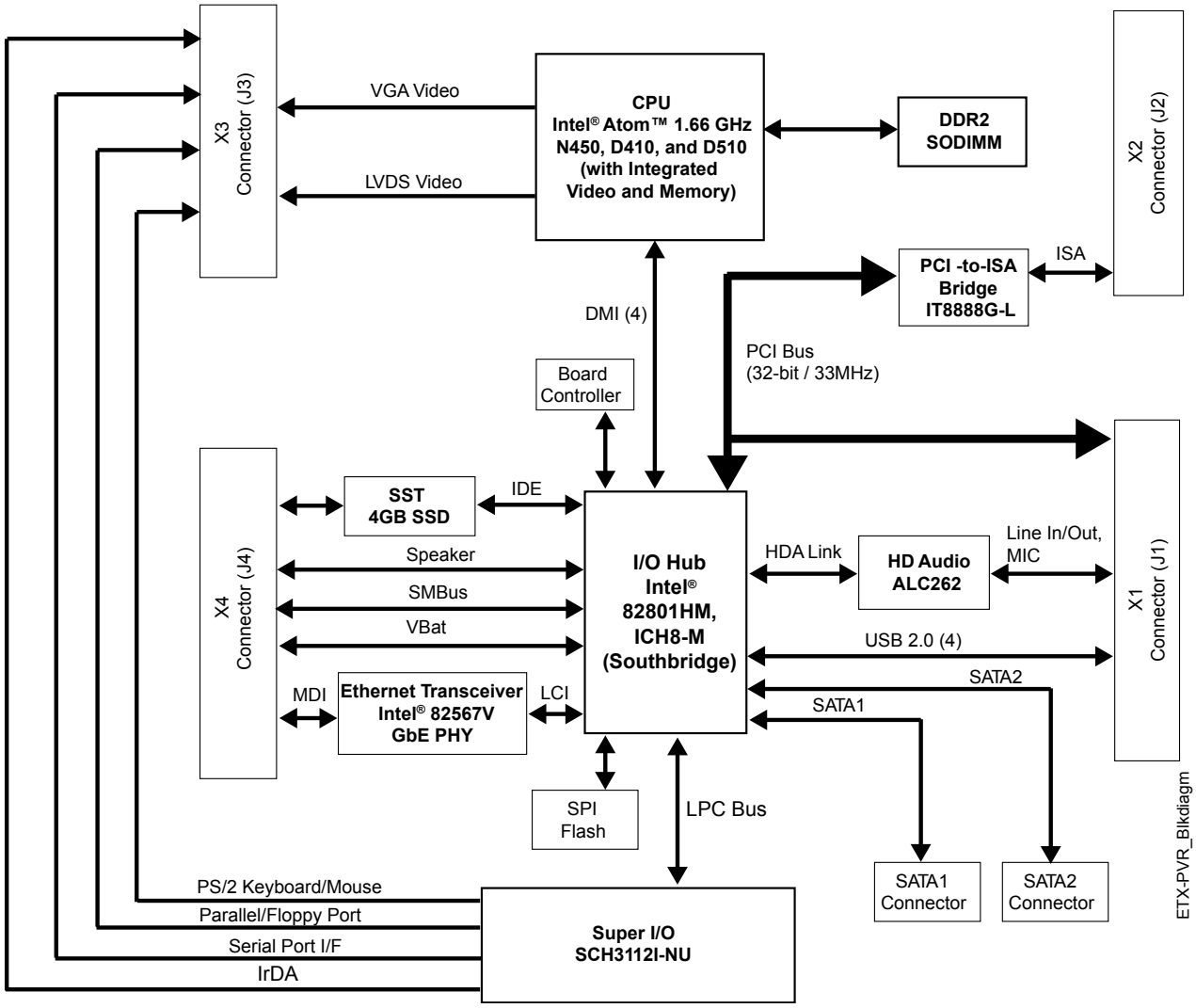
Form factor	ETX Rev 3.02
Dimension	114 mm x 95 mm
Board Thickness	0.093" (2.36 mm)
Operating Temperature	Standard: 0°C to +60°C
	Extreme Rugged™: -40°C to +85°C (optional)
Storage Temperature	-55°C to +85°C
Humidity	90% at +60°C
Shock	Non-operating: 50G peak-to-peak, 11ms duration, MIL-STD-202G Method 213B
Vibration	Operating: 11.95 Grms, 50-2000 Hz, each axis, MIL-STD-202G Method 214A

Operating Systems

Standard Support	Linux, Windows CE 6.0, Windows XPe, VxWorks 6.7, QNX 6.4*

*Note: Available upon request or contact us for other software support

Functional Diagram



Ordering Information

Modules

Model Number	Description/Configuration
ETX-PVR-L-24	ETX form factor starter kit for ETX-PVR-R-24 includes ETX-Proto Baseboard and HW/Kit, HTS-PVR-BT heatspreader and 1GB SODIMM. USB stick with BSP/drivers and manuals
ETX-PVR-L-28	ETX form factor starter kit for ETX-PVR-R-28 includes ETX-Proto Baseboard and HW/Kit, THSF-PVR-BT active heatsink and 2GB SODIMM. USB stick with BSP/drivers and manuals
ETX-PVR-R-24	ETX-PVR Module with Intel® Atom™ N455 Single Core Processor at 1.66 GHz, 512KB L2 Cache, 18-bit LVDS, PCI, LPC, SSD
ETX-PVR-R-26	ETX-PVR Module with Intel® Atom™ D425 Single Core Processor at 1.8 GHz, 512KB L2 Cache, 18-bit LVDS, PCI, LPC, SSD
ETX-PVR-R-28	ETX-PVR Module with Intel® Atom™ D525 Dual Core Processor at 1.8 GHz, 1MB L2 Cache, 18-bit LVDS, PCI, LPC, SSD

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Note: All specifications are subject to change without further notice.