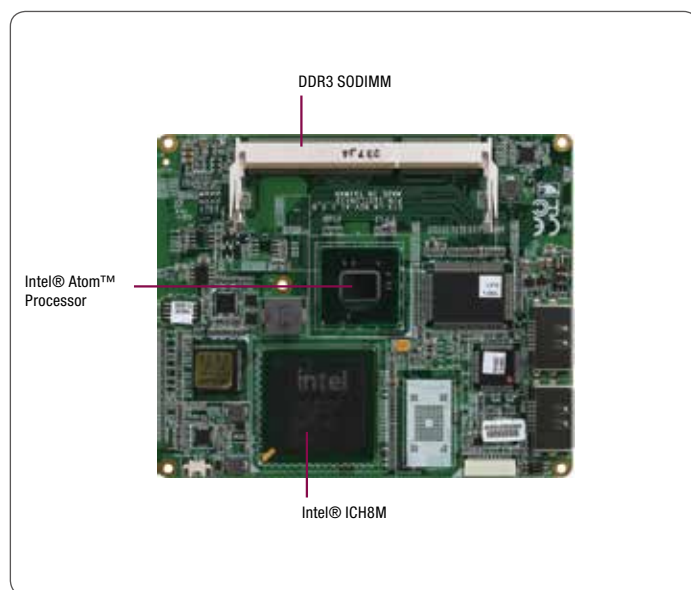


ETX CPU Module with Onboard Intel® Atom™ D525/N455 Processor



Features

- Onboard Intel® Atom™ D525/N455 Processor
- Intel® ICH8M
- DDR3 667/800 MHz SODIMM x 1, Up to 4 GB
- 10/100Base-TX Ethernet
- CRT, 24-bit Single Channel LVDS LCD
- High Definition Audio Interface
- SATA 3.0 Gb/s x 2, PATA x 1
- USB2.0 x 4, COM x 2
- +5V Only Operation



Specifications

System	
Form Factor	ETX
Processor	Onboard Intel® Atom™ D525/N455 processor
System Memory	204-pin DDR3 667/800 MHz SODIMM x 1, up to 4 GB (DDR3 667/ 2 GB for N455 and DDR3 800/ 4 GB for D525)
Chipset	Intel® ICH8M
I/O Chipset	Winbond W83627DHG-P
Ethernet	Realtek RTL8105, 10/100 Base-TX
BIOS	AMI BIOS, SPI type, 4 MB ROM
Wake on LAN	Optional
Watchdog Timer	Generates a time-out system reset
H/W Status Monitoring	Supports power supply voltages, fan speed and temperature monitoring
Expansion Interface	32-bit PCI x 4 8-bit/16-bit ISA SM Bus x 1
Battery	Lithium battery
Power Requirement	+5V DC
Power Consumption (Typical)	Intel® Atom™ D525 1.86 GHz, DDR3 4 GB, 3.42A@+5V
Board Size	4.5" (L) x 3.74" (W) (114mm x 95mm)
Gross Weight	0.66 lb (0.3 kg)
Operating Temp.	32°F ~ 140°F (0°C ~ 60°C)
Storage Temp.	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	116,000
Display	
Supports CRT/LCD Dual Simultaneous/ Dual Independent Display	
Chipset	Intel® Atom™ D525/N455 integrated Integrates hardware MPEG2 decoder
Memory	Shared system memory up to 256 MB/ DVMT 4.0
Resolution	CRT: up to 2048 x 1536 @ 60 Hz (D525) CRT: up to 1400 x 1050 @ 60 Hz (N455) LCD: up to 1366 x 768 or 1280 x 800 @ 60 Hz
LCD Interface	24-bit signal-channel LVDS
I/O	
Storage	PATA x 1 (two devices) SATA 3.0 Gb/s x 2 (on module)
USB	USB2.0 x 4
Audio	Mic-in, Line-in, Line-out
Serial Port	RS-232 x 2
Parallel Port	LPT

Packing List

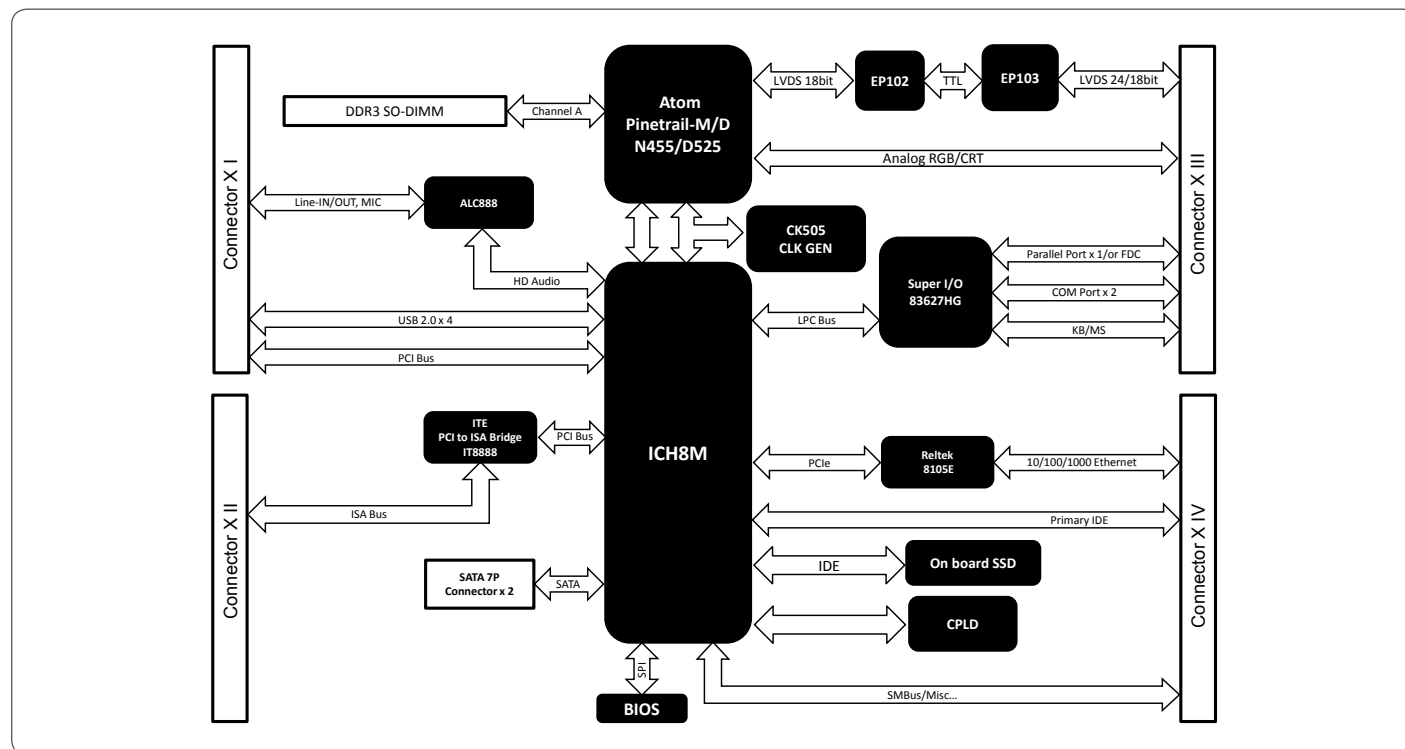
- M2.5 Screw x 4
- Product CD
- ETX-LN Rev. A1.1

Optional Accessories

- **TF-ECB-902M-A10**
ETX Carrier Board, LAN, Audio, 2COM, USB2.0, PCI, ISA, AT/ATX, Rev. A1.0 (For ETX-LN, ETX-945GSE, ETX-701)
- **TF-PER-A101**
CPU Cooler, For ETX-LN, Onboard CPU
- **TF-PER-A102**
Passive Heatsink, For ETX-LN, Onboard CPU
- **TF-PER-A103**
Heat Spreader Kit, For ETX-LN, Onboard CPU

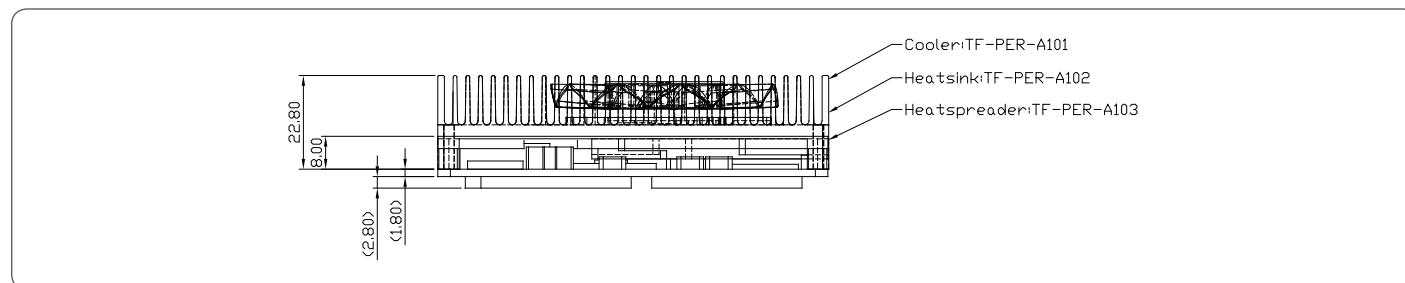
ETX-LN Rev. A11

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Display	LVDS	Storage	LAN	USB2.0	KB/MS	UART	LPT	Expansion Slot	Power	Temp.
ETX-LN-A11	Intel® Atom™ N455/1.66 GHz	DDR3 SODIMM x 1 up to 2 GB	CRT, LVDS	24b, 1CH	SATA2 x 2 PATA x 1	FE x 1	4	1	2	1	8-bit/16-bit/ISA 32-bit PCI x 4	5V	0°C ~ 60°C
ETX-LN-A11-01	Intel® Atom™ D525/1.8 GHz	DDR3 SODIMM x 1 up to 4 GB	CRT, LVDS	24b, 1CH	SATA2 x 2 PATA x 1	FE x 1	4	1	2	1	8-bit/16-bit/ISA 32-bit PCI x 4	5V	0°C ~ 60°C