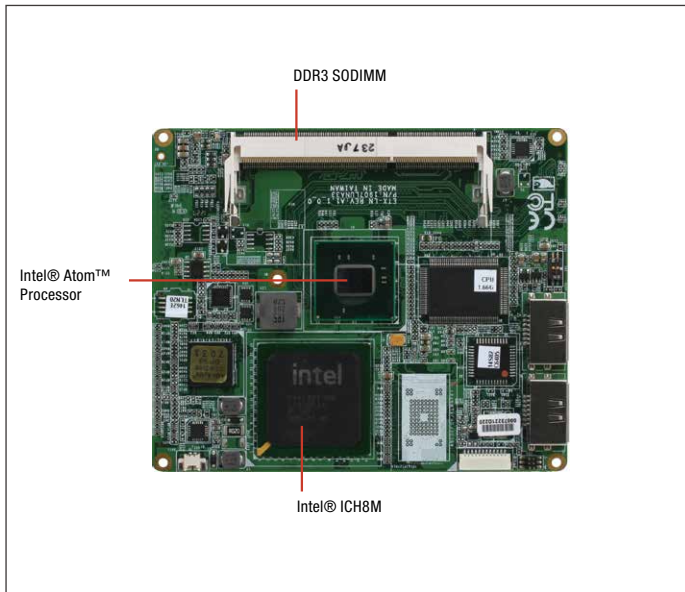


ETX CPU Module with Onboard Intel® Atom™ D525/N455 Processor



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
CPU	Onboard Intel® Atom™ D525/N455
CPU Frequency	Up to 1.8 GHz/ FSB
Chipset	ICH8M
Memory Type	DDR3 667/800, SODIMM x 1
Max. Memory Capacity	N455 667/2G, D525 800/4G
BIOS	AMI AMI BIOS, 4MB
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+5V
Power Consumption (Typical)	Intel® Atom™ D525 1.8 GHz, DDR3 1066 4 GB, 3.42A@+5V
Power Supply Type	AT/ ATX
Dimension (L x W)	4.5" x 3.74" (114mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	100,000
Certification	CE/FCC
Display	
VGA/LCD Controller	Intel® D525/N455/D425 integrated
Video Output	CRT, LVDS LCD
Backlight Inverter Supply	—
I/O	
Ethernet	Realtek RTL8105E, 10/100Base-TX
Audio	Realtek ALC662
USB Port	USB2.0 x 4
Serial Port	COM 1/2
Parallel Port	SPP/EPP/ECP x 1
HDD Interface	PATA x 1, SATA 2 x 2
FDD Interface	—
SSD	—
Expansion Slot	PCI ISA I2C x 1
DIO	—
TPM	—

Packing List

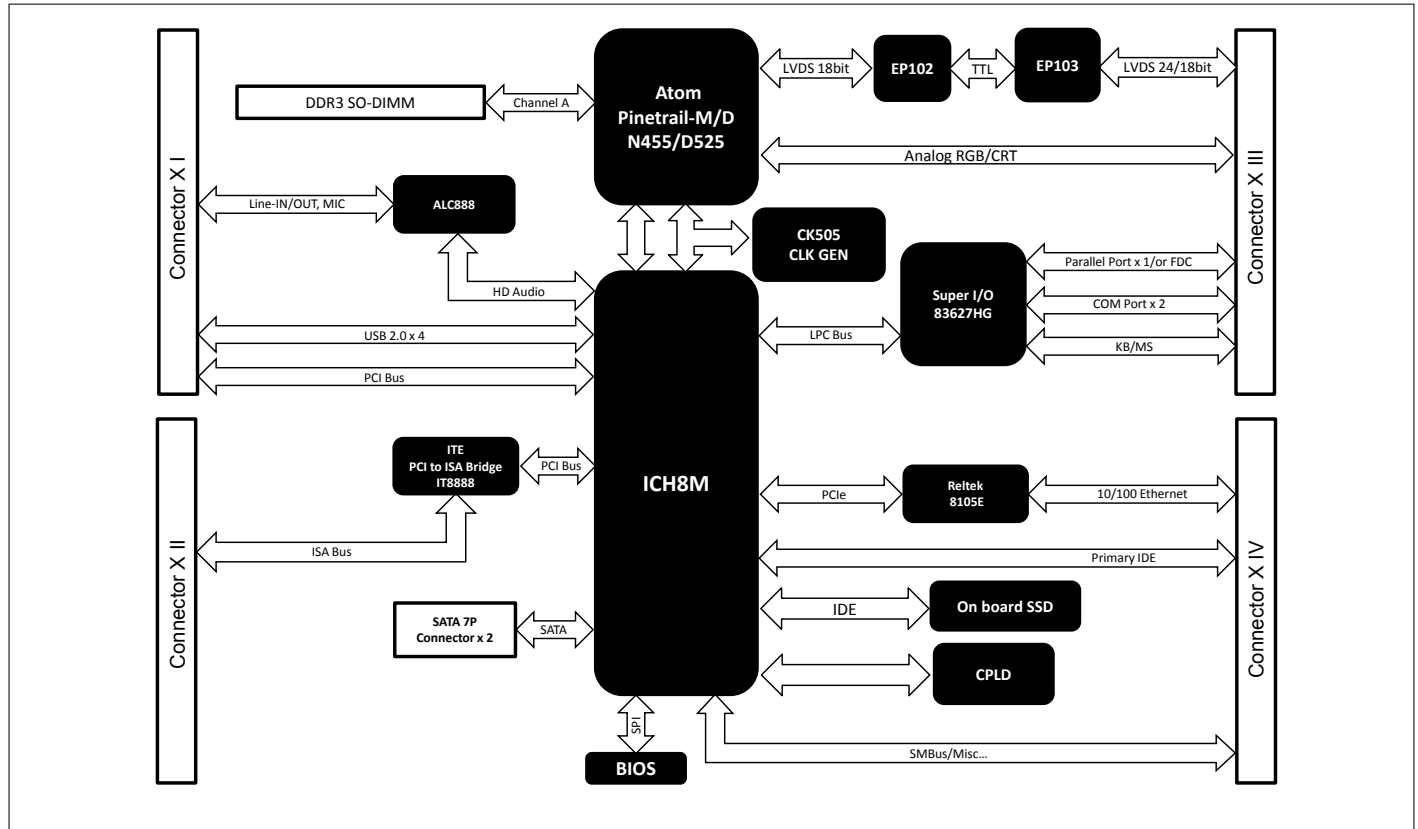
- M2.5 Screw x 4
- Product CD
- ETX-LN Rev. A1.1

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

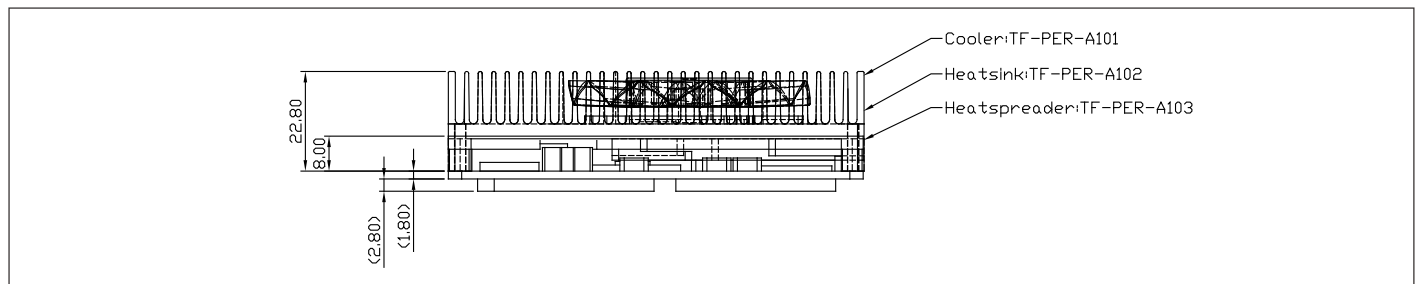
ETX-LN Rev. A11

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