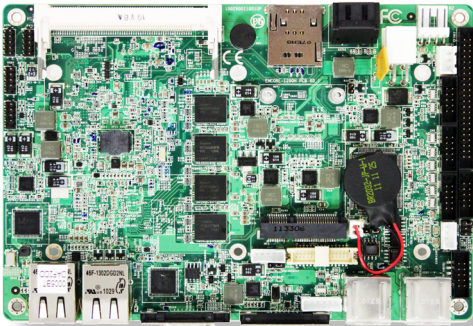




EmCORE-i290H

Intel® Atom™ Processor N455/D525 EPIC Compact Board



Features

- Soldered onboard Intel® Atom™ Processor N455/D525
- Dual Gigabit Ethernet Ports
- Analog RGB and Single Channel 18-bit LVDS Display
- Dual Independent Displays supported
- Integrated SIM Socket for mobile telecommunication
- **Extended Range Operating Temp.: -20 ~ 70°C**

System

Processor	Soldered onboard Intel® Atom™ Processor N455 1.66GHz/ D525 1.80GHz
Chipset	Intel® ICH8M
Memory	Soldered Onboard 2GB DDR3 SDRAM
BIOS	AMI BIOS
Watchdog Timer	1~255 levels reset

I/O

Super IO Chipset	Winbond W83627HG
Serial Port	4 x RS-232 1 x RS-232/422/485 selectable
Keyboard & Mouse	6-pin wafer connector for PS/2 keyboard/ mouse via Y-cable
USB 2.0	8 x USB 2.0 ports 1 x Mini-PCI Socket
Expansion	1 x Mini-Card Socket 1 x SIM Socket
Storage	2 x Serial ATA ports with 300MB/s HDD transfer rate 2GB NANDrive (OEM request) 1 x Ultra ATA, supporting 2 IDE devices
Ethernet Chipset	2 x Realtek® RTL8111 PCIe GbE controllers
Digital I/O	8-bit Programmable
Audio Interface	Realtek® ALC886 7.1 Channel HD Audio CODEC, Mic-in/ Line-in/ Line-out

Display

Graphic Chipset	Integrated Intel® GMA 3150
Graphic Interface	Analog RGB, with resolution up to 1400x1050 (N455), 2048x1536 (D525) LVDS: Single Channel 18-bit LVDS, with resolution up to 1366x768

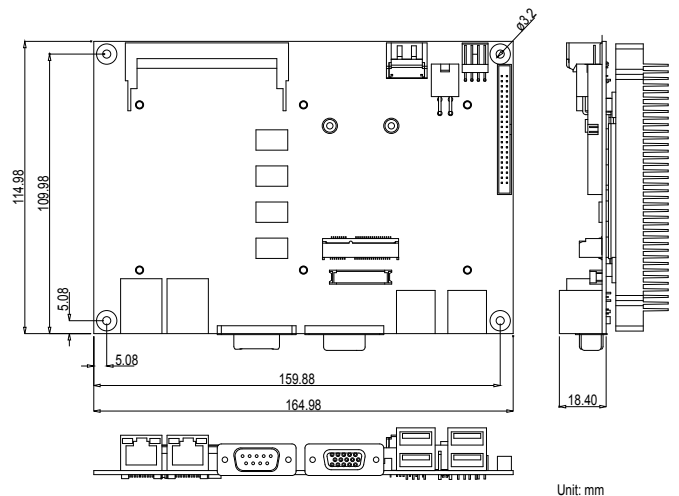
OS Support

Windows XP
Windows 7

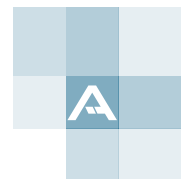
Mechanical & Environmental

Power Input	DC 12V
Power Consumption	1.52A@+12V with D525 (Typical) 1.29A@+12V with N455 (Typical)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimension (L x W)	165 x 115 mm (6.5" x 4.5")

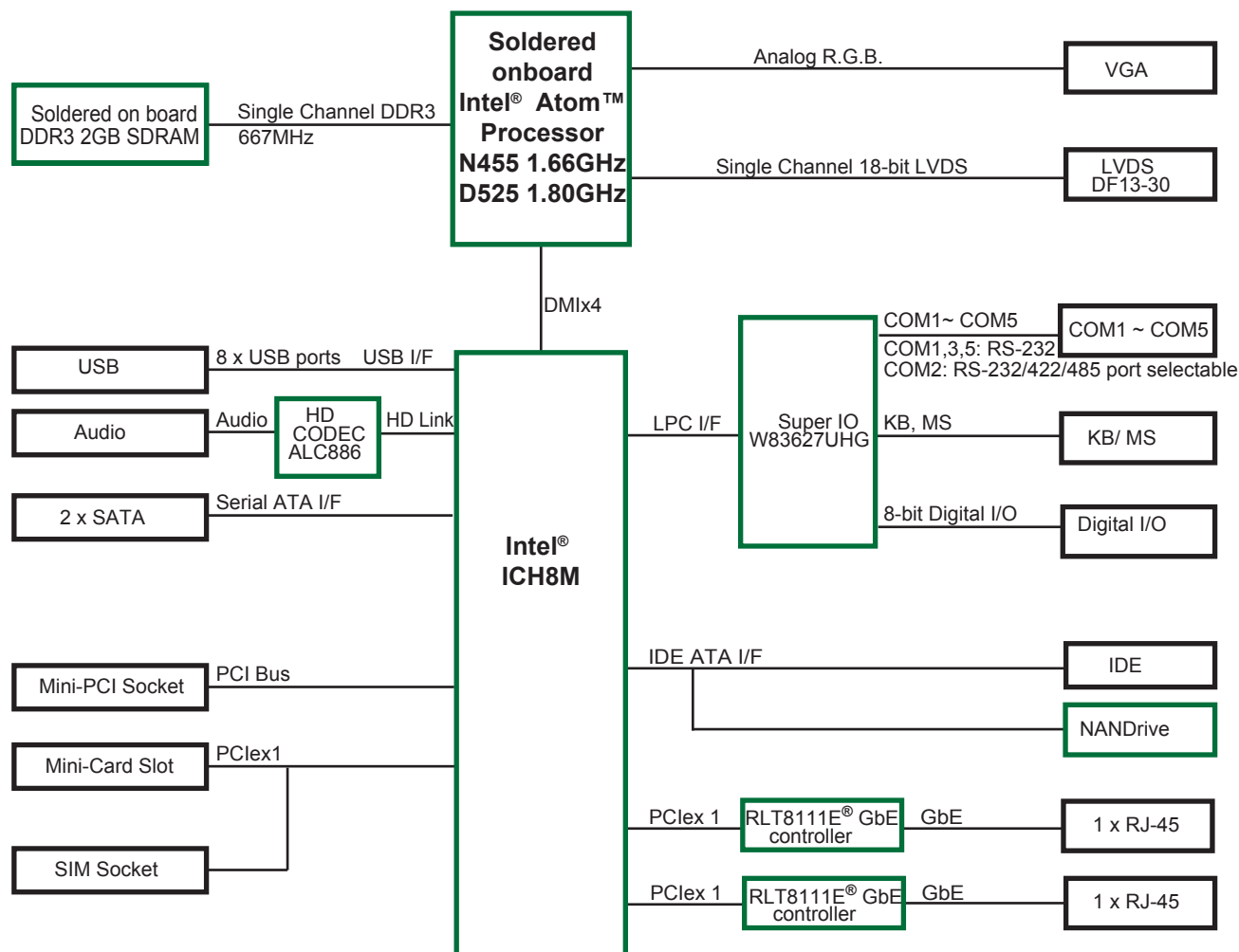
Dimensions



Unit: mm



Block Diagram



Ordering Information

EmCORE-i290H-N4	Intel® Atom™ Processor N450/ ICH8M EPIC compact board
EmCORE-i290H-D5	Intel® Atom™ Processor D525/ ICH8M EPIC compact board
EmCORE-i290HD-N4 (OEM request)	Intel® Atom™ Processor N450/ ICH8M with 2GB NANDrive soldered on board EPIC compact board
EmCORE-i290HD-D5 (OEM request)	Intel® Atom™ Processor D525/ ICH8M with 2GB NANDrive soldered on board EPIC compact board

Optional Accessories

CBK-11-2902-00	Cable kit 1 x IDE cable 1 x Audio cable 2 x SATA cables 2 x USB cables 4 x Serial port cables 1 x KB/MS Y-cable
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