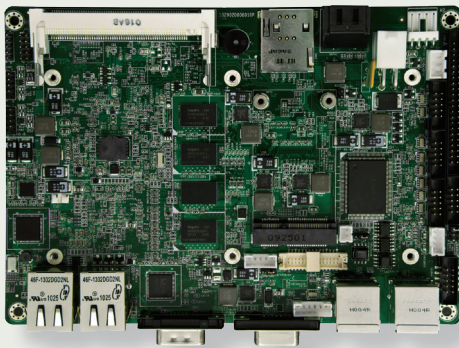


EmCORE-i2902

Intel® Atom™ N450/D510 EPIC Compact Board



Features

- Soldered Onboard Intel® Atom™ N450/D510 1.6GHz Processor
- Dual Gigabit Ethernet Ports
- Analog RGB and Single Channel 18-bit LVDS Display
- Support Dual Independent Display
- Multi-expansion (2 x SATA, 1 x PATA, 8 x USB, 5 x Serial Ports, 1 x Mini PCI Socket, and 1 x Mini-card Socket)
- Integrated SIM Socket to Support Mobile Telecommunication
- **Extended Range Operating Temp.: -20 ~ 70°C**

System

CPU	Soldered onboard Intel® Atom™ N450/D510 1.6GHz processor
Memory	Soldered onboard DDR2 1GB SDRAM
Chipset	Intel® ICH8M
BIOS	AMI PnP Flash BIOS
Storage	1 x Ultra ATA, support 2 IDE device
	2 x SATA ports at 300MB/s HDD transfer rate
	Soldered on board 2GB NANDrive (optional)

Watchdog Timer 1~255 levels reset

I/O

I/O Chip	Winbond 83627UHG
Serial Port	5 x COM ports (4 x RS-232, 1 x RS-232/422/485 selectable)
USB Port	8 x USB 2.0 ports
KB/MS	1 x 6-pin wafer connector for Keyboard and Mouse (PS/2 interface via cable)
Digital I/O	8-bit programmable Digital Input/Output
Expansion Bus	1 x Mini PCI socket
	1 x Mini-card socket
	1 x SIM socket

Ethernet

Chipset 2 x Realtek RTL8111 PCIe Gigabit Ethernet controllers

Audio

CODEC/Interface Realtek ALC888 7.1 Channel HD Audio Codec, Mic-in/Line-out

Display

Graphics Chipset Integrated Intel® Graphics Media Accelerator 3150

Graphics Interface Support Analog RGB

LCD: Single Channel 18-bit LVDS

Support dual independent displays

Mechanical & Environmental

Power Requirement 4-pin Aux. ATX power connector

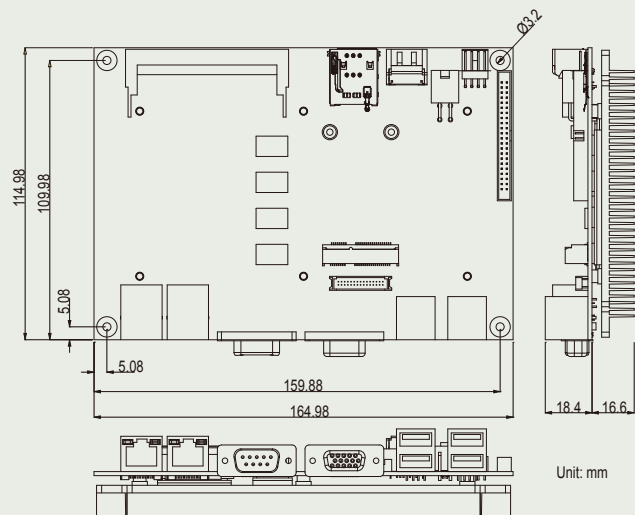
Power Consumption 1.52A/12V with D510 CPU
1.29A/12V with N450 CPU

Operating Temp. -20 ~ 70°C (-4 ~ 158°F)

Operating Humidity 0 ~ 95% (non-condensing)

Dimensions (L x W) 165 x 115 mm (6.5" x 4.5")

Dimensions



Ordering Information

EmCORE-i2902-N4 Intel® Atom™ N450 EPIC compact board

EmCORE-i2902-D5 Intel® Atom™ D510 EPIC compact board

EmCORE-i2902D-N4 Intel® Atom™ N450 with 2GB NANDrive EPIC compact board

EmCORE-i2902D-D5 Intel® Atom™ D510 with 2GB NANDrive EPIC compact board

CBK-11-2902-00 Cable kit

1 x IDE cable	2 x USB cables
1 x Audio cable	4 x COM port cables
2 x SATA cables	1 x KB/MS cable