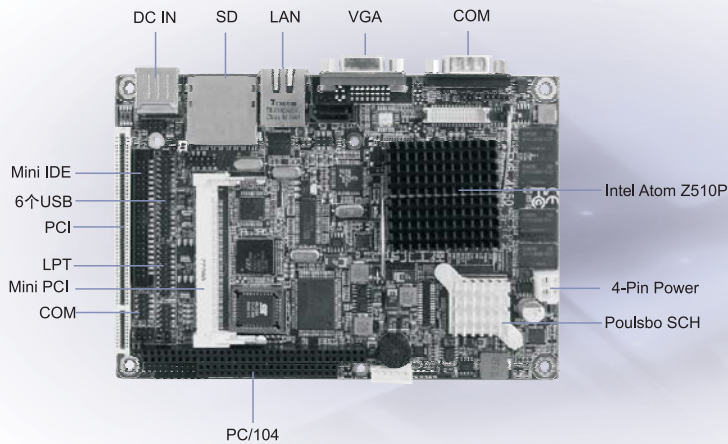


EMB-4650

Low-Power EPIC Motherboard Based on Intel Atom Z510P



Features :

- Based on Intel Poulsbo SCH chipset, with a Intel Atom Z510P processor and 512M DDR II RAM onboard
- 1 X LVDS and 1 X VGA (DVI for option) interfaces, supporting dual independent display
- Support Mini-IDE, SATA, CF and SD cards
- Realtek 8111C/D supporting 1 X Gigabit Ethernet port
- 8 X USB2.0/1 X LPT/2 X COM/1 X MINI-PCI/1 X PCI/1 X PC104



Compact Flash



Fanless



DID



LVDS



USB 2.0



One Key restore



BIOS Security

Specifications

System	
Motherboard Type	EPIC
Processor	Onboard Intel Atom Z510P processor (1.1GHz main frequency, 400MHz FSB, TDP 2.2W)
RAM	Onboard 512M DDR II RAM
Chipset	Intel Atom Z510P+Poulsbo SCH
I/O Chip	Winbond W83627DHG-P
Ethernet	Realtek 8111C/D, 10/100/1000Mbps, 1 X RJ-45
BIOS	8M Flash BIOS
Wake On LAN	Yes
Watchdog Timer	Trigger a system reset when the timer overflows
Hardware State Monitoring	Monitor the state of voltage, temperature and rotational speed of the fan
Expansion Interface	1 X Mini-PCI, 1 X PC104, 1 X PCI
Battery	Lithium battery
Power Requirement	+12V single power supply
Motherboard Size	165mm×115mm
Operating Temperature	0℃~60℃
Storage Temperature	-40℃~80℃
Operating Humidity	0%~90% relative humidity (non-condensing)
Display	Support CRT (DVI) + LVDS display output
Controller	GMA500 integrated in Intel Poulsbo SCH
Video Memory	Dynamic video memory
Resolutions	CRT supports up to 2048x1536x32 bpp@85 Hz LVDS supports up to 1600×1200×32bpp@60 Hz
VGA	1 X DB15 (DVI for option)
LCD	1 X 18/24-bit LVDS
DVI	1 X DVI (VGA for option)
TV-out	—
Multi-Display	Support VGA (DVI)+LVDS dual independent display
I/O	
Storage	1 X Mini-IDE, 1 X SATA, 1 X Compactflash socket, 1 X SD card reader
Serial Port	1 X RS-232, 1 X RS-232/422/485
Parallel Port	1 X 2x10 Header
USB	8 X USB2.0 (2 X standard ports, 3 X 2x5Pin interfaces)
Keyboard	—
GPIO	8-bit GPIO
IrDA	—
Audio	Realtek ALC888 supports MIC-IN, LINE-IN, LINE-OUT, with 2x5Pin interfaces

Packing List

- 0040021019 Jumper
- 0600400019 Keyboard/Mouse Converter Cable
- 0260400019 Serial Port Cable
- 0470120009 SATA Data Cable
- 0360250019 USB Data Cable
- 44Pin IDE Hard Disk Cable
- Drive Disk
- User's Manual
- Warranty card
- EMB-4650

Ordering Information

- **EMB-4650-V10**
EPIC motherboard, onboard Intel Atom Z510P processor and 512M DDR II RAM, VGA (DVI) +LVDS display output, 1 X GbE, 8 X USB, 2 X COM, 1 X CF, 1 X SD Reader, 1 X SATA, 1 X Mini-IDE, 1 X PCI, 1 X PC104, 1 X Mini-PCI, 1 X LPT, HD Audio