

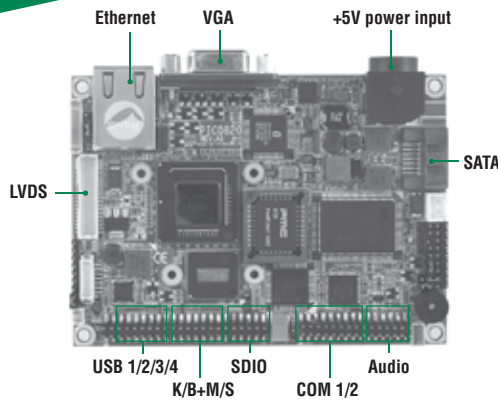
PICO820

Intel® Atom™ Pico-ITX SBC with CRT/LVDS LCD, SATA, LAN and SDIO

2

Single Board Computers

New



- Atom™ Z500
- Intel® US15W
- 4 USB 2.0
- LVDS/CRT
- HD Audio
- 2 COM

Features



- ▶ Ultra low power Intel® Atom™ processor Z500 series
- ▶ Intel® System Controller Hub US15W
- ▶ 2 COM and 4 USB 2.0 supported
- ▶ CRT/LVDS LCD supported
- ▶ 1 SATA-150 port
- ▶ 1 10/100/1000Mbps Ethernet
- ▶ 1 SDIO port
- ▶ +5V only single voltage DC-in supported

System

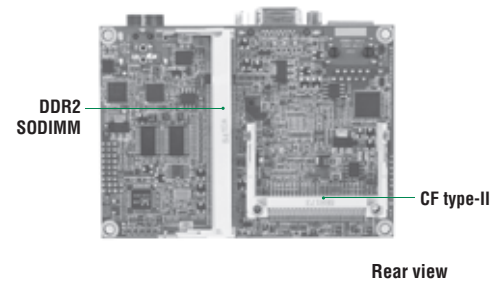
CPU	Intel® Atom™ processor Z500 series
System Memory	1 x 200-pin SODIMM supports DDR2 PC2-3200/4200 max. up to 2GB
Chipset	Intel® System Controller Hub US15W
BIOS	Phoenix-Award
SSD	1 x CompactFlash™ type-II
Watchdog Timer	255 levels, 1~255 sec.
Battery	Lithium3V/196mAH
Size	100 x 72mm
Temperature	0°C ~ 60°C (32°F ~140°F), operation
Operation Humidity	10%~95% relative humidity,

I/O

MIO	1 x PS/2 (through I/O pin-header) 2 x COM (through I/O pin-header) 1 x SDIO (through I/O pin-header)
SATA	1 x SATA-150
Ethernet	1 port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111B
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with Realtek ALC883
USB	4 x USB 2.0; through I/O pin-header

Display

Chipset	Integrated in Intel® System Controller Hub US15W
Resolution	* VGA: up to 2048 x 1536 * LVDS LCD: 24-bit single channel up to 1366 x 768
Output interface	* VGA with D-sub 15-pin connector * LVDS LCD through JST connector
Memory Size	Max. up to 256M



Packing List

Quick installation guide, user's manual/utility CD, cable

Ordering Information

Standard	
PICO820VGA-Z510	Pico-ITX SBC with Intel® Atom™ Z510 1.1 GHz CPU, CRT/LVDS LCD, 10/100/1000Mbps, SATA
Optional	
PICO820VGA-Z530	Pico-ITX SBC with Intel® Atom™ Z530 1.6 GHz CPU, CRT/LVDS LCD, 10/100/1000Mbps, SATA

SBC Services and Solutions

System-on-a-Module Solutions

Embedded SBCs
> 5.25" Petit

Embedded SBCs
> EPIC

Embedded SBCs
> 3.5" Capa

Embedded SBCs
> Pico-ITX

Embedded SBCs
> PG104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix