

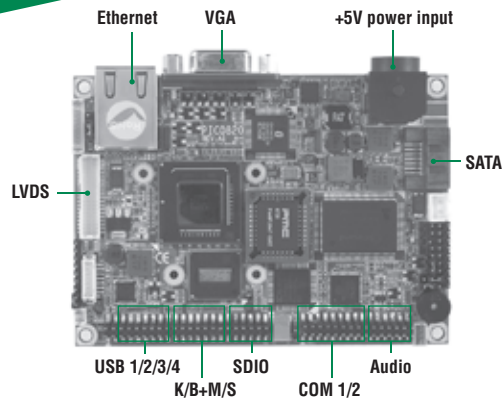
# PICO820

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

# 2

Single Board Computers

*New*

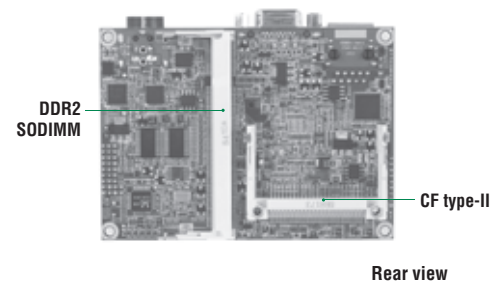


Atom™ Z500  
Intel® US15W  
4 USB 2.0  
LVDS/CRT  
HD Audio  
2 COM

## 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



## 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 |

## 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)<br>2 x COM (through I/O pin-header)<br>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<br>* LVDS LCD: 24-bit single channel up to 1366 x 768 |
| Output interface | * VGA with D-sub 15-pin connector<br>* LVDS LCD through JST connector          |
| Memory Size      | Max. up to 256M                                                                |

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  
> PQ104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix