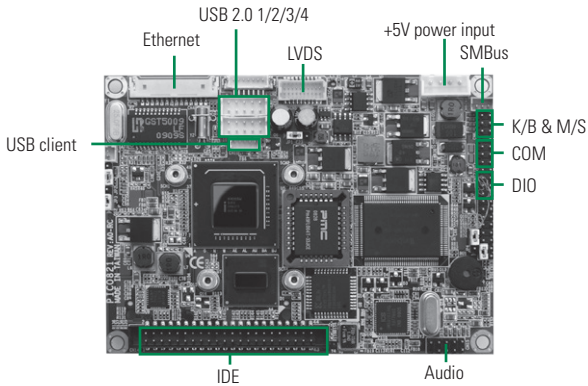


PICO821

Intel® Atom™ Z510/ Z530 Pico-ITX SBC with LVDS, PATA, LAN and CF



Fanless Low Power

System

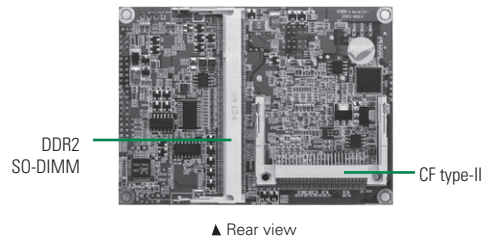
| | |
|-----------------------|---|
| CPU | Intel® Atom™ processor Z510 1.1 GHz and Z530 1.6 GHz onboard with FSB 400/533 MHz |
| System Memory | 1 x 200-pin SO-DIMM supports DDR2-400/533 max. up to 2 GB |
| Chipset | Intel® System Controller Hub US15W |
| BIOS | Phoenix-Award |
| SSD | 1 x CompactFlash™ type-II |
| Watchdog Timer | 255 levels, 1~255 sec. |
| Expansion Interface | N/A |
| Battery | Lithium 3V/225 mAh |
| Power Input | 1 x 4-pin connector +5V DC-in only AT Auto Power on function supported |
| Power Requirements | *Intel® Atom™ Z530 @1.6 GHz, 1 GB DDR2 Max. RMS: +5V @ 1.59A *Intel® Atom™ Z510 @1.1 GHz, 1 GB DDR2 Max. RMS: +5V @ 1.387A |
| Size | 100 x 72 mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | 0° ~ +60°C (32°F ~ 140°F), operation |
| Relative Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

| | |
|---------------------|--|
| MIO | 1 x IDE; PATA-100 1 x PS/2 keyboard and mouse 1 x RS-232 |
| SATA | N/A |
| Hardware Monitoring | Detect CPU/system temperature and voltage |
| 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 with Realtek ALC886 |
| USB | 4 x USB 2.0 1 x client USB 2.0 |
| SMBus | System Management Bus for advanced monitoring/control interface |
| Digital I/O | 6 channels IN/OUT programmable |

Features

- Ultra low power Intel® Atom™ processor Z510/ Z530
- 1 COM and 5 USB 2.0 (1 client port) supported
- LVDS LCD supported
- 1 PATA and 1 CompactFlash™
- One 10/100/1000Mbps Ethernet
- Minimum 9 Watt power requirement



DDR2 SO-DIMM

CF type-II

▲ Rear view

Display

| | |
|-------------------|------------------------------------|
| Chipset | Intel® GMA 500 graphics core |
| Memory Size | Max. up to 256 MB |
| Display Interface | 1 x LVDS; 18/24-bit single channel |

Packing List

Standard

Quick installation guide, user's manual/utility CD and accessories

Accessories

| Part Number | Description | Qty |
|--------------|---------------------------------|-----|
| E393221101 | AX93221 24bit LVDS to DVI-D Bd. | 1 |
| 5938H821040E | PICO821 LVDS to AX93221 cable | 1 |
| 59382631000E | 2 x USB cable | 2 |
| 5938H821030E | USB client port cable | 1 |
| 5938H821000E | COM + KB cable | 1 |
| 5938H821010E | audio cable | 1 |
| 85932021000E | AX93202 RJ-45 Bd. | 1 |
| 59093201000E | PICO821 to AX93202 cable | 1 |
| 5938H821020E | Power in cable | 1 |

Ordering Information

Standard

| | |
|----------------------------------|---|
| PICO821LGA-Z510 (P/N:E38H821100) | Pico-ITX SBC with Intel® Atom™ processor Z510 1.1 GHz, LVDS, PATA, 10/100/1000Mbps Ethernet, CF and DVI-D kit |
| PICO821LGA-Z530 (P/N:E38H821102) | Pico-ITX SBC with Intel® Atom™ processor Z530 1.6 GHz, LVDS, PATA, 10/100/1000Mbps Ethernet, CF and DVI-D kit |

SBC Services and Solutions

Systems on Modules

Embedded SBCs >EPIC

Embedded SBCs >3.5" Capa

Embedded SBCs >Nano-ITX

Embedded SBCs >Pico-ITX

Embedded SBCs >PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix