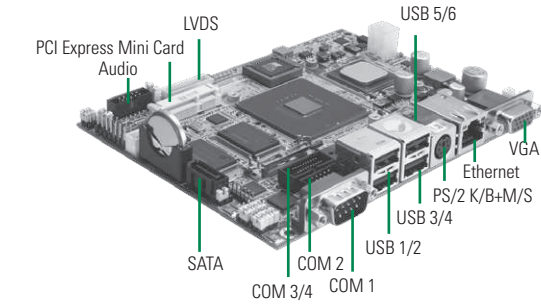


SBC84823

Intel® Atom™ Z510PT/ Z520PT 3.5" Embedded SBC with Intel® System Control Hub US15WPT Chipset, VGA/LVDS, DualView and PCI Express Mini Card (-40°C ~ +85°C)



System

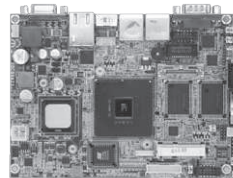
| | |
|-----------------------|---|
| CPU | Intel® Atom™ processor Z510PT 1.1 GHz and Z520PT 1.33 GHz onboard with FSB 400/533 MHz |
| System Memory | 1 x 200-pin SO-DIMM supports DDR2-400/533 max. up to 2 GB |
| Chipset | Intel System Controller Hub US15WPT |
| BIOS | Phoenix-Award |
| SSD | 1 x CompactFlash™ type-II |
| Watchdog Timer | 255 levels, 1~255 sec. |
| Expansion Interface | 1 x PCI Express Mini Card V1.2 (USB only, PCIe x1 optional) |
| Battery | Lithium 3V/195 mAh |
| Power Input | 2 x 2-pin connector +8V~+24V DC-in (+12 powered COM and LVDS inverter are supported with DC-in over +12V) AT Auto Power ON function supported |
| Power Requirements | *Intel® Atom™ Z520PT @1.33 GHz, 1GB DDR2 Max. RMS: +12V @ 736mA *Intel® Atom™ Z510PT @1.1 GHz, 1GB DDR2 Max. RMS: +12V @ 732mA |
| Size | 146 x 104 mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | -40°C ~ +85°C (-40°F ~ +185°F), operation |
| Relative Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

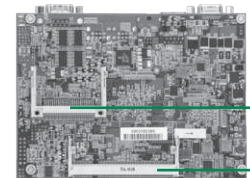
| | |
|---------------------|--|
| MIO | 1 x PS/2 keyboard and mouse 4 x RS-232; with +5V/+12V powered |
| SATA | 1 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature and voltage |
| Ethernet | 1 port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82574IT |
| Audio | HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with Realtek ALC886 |
| USB | 6 x USB 2.0 |
| SMBus | System Management Bus for advanced monitoring/control |
| Digital I/O | 3 channels IN & 5 channels OUT |

Features

- Intel® Atom™ processor Z510PT (1.1 GHz)/ Z520PT (1.3 GHz) series with FSB 533 MHz
- Intel® system control hub US15WPT chipset
- Integrated graphics controller for VGA and LVDS
- 6 USB 2.0 ports
- 4 COM ports
- PCI Express Mini Card expansion (USB only)
- Supports wide range temperature of -40°C ~ +85°C



▲ Top view



▲ Rear view

CF type-II
DDR2 SO-DIMM

Display

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

Packing List

Standard

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

Cable

| Part Number | Description | Qty |
|--------------|---|-----|
| 59380000300E | 2 x COM w/ bracket P=1.27 x 2.54 L=300mm | 1 |
| 59384500100E | Audio cable w/ bracket P=2, 450mm | 1 |
| 59382620000E | 1 x COM cable w/ bracket P=2.0mm, L=300mm | 1 |

Ordering Information

Standard

| | |
|--|---|
| SBC84823VGA-Z510PT-RC w/WT (P/N: E384823100) | 3.5" SBC with Intel® Atom™ processor Z510PT 1.1 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, 4 COM, 6 USB, audio and W.T. (-40°C ~ +85°C) |
| SBC84823VGA-Z520PT-RC w/WT (P/N: E384823102) | 3.5" SBC with Intel® Atom™ processor Z520PT 1.3 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, 4 COM, 6 USB, audio and W.T. (-40°C ~ +85°C) |

* W.T.: Wide Temperature