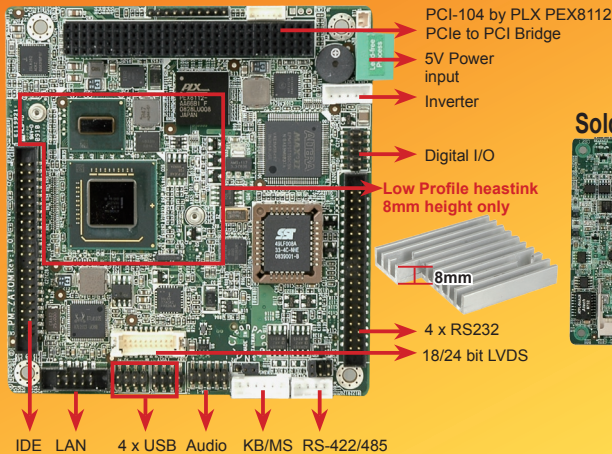


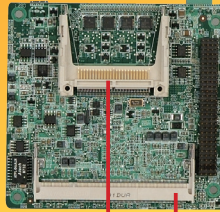
# PM-US15W

PCI-104 Intel® Atom™ Z510/Z530 CPU board with 18/24 bit LVDS, USB, CF

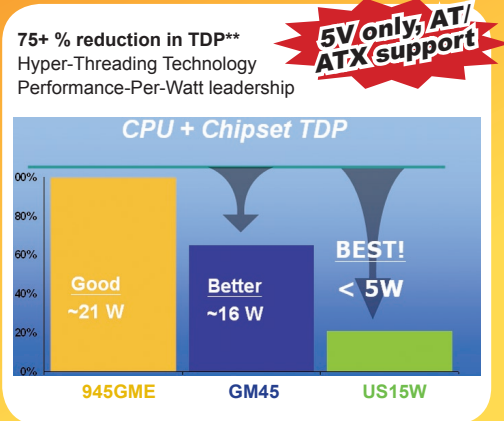
- Intel® Atom™ Z510/Z530 Processor up to 1.6GHz
- PLX PEX8112 PCIe to PCI bridge support PCI-104 Add-on card
- Single channel 18/24 bit LVDS supported
- CF type II and 4 x USB, 4 x COM supported
- Full hardware acceleration of H.264, MPEG2, VC1, and WMV9 is supported



## Solder Side



CF type II DDR2 400/533MHz



**FSB 533**

**DDR2 533**

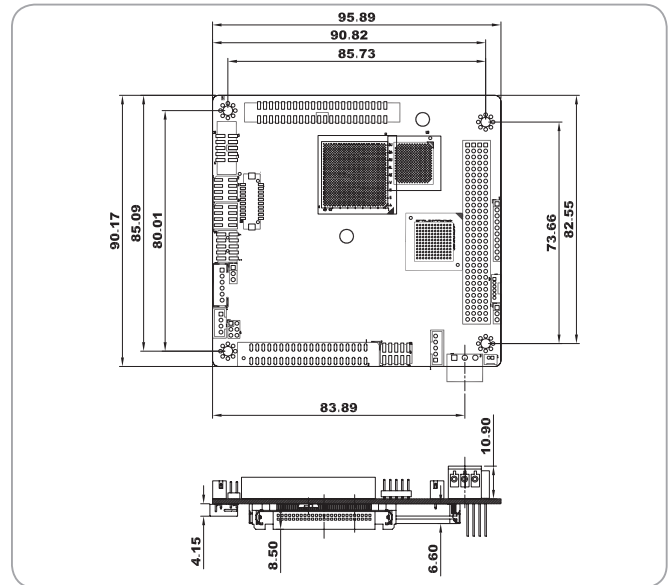
**Fanless**



## Specifications

- ◆ CPU
  - Intel® Atom™ Z510 1.1GHz with a 400MHz FSB w/o HT support
  - Intel® Atom™ Z530 1.6GHz with a 533MHz FSB w/ HT support
- ◆ System Chipset
  - Intel® US15W
- ◆ BIOS
  - AMI BIOS
- ◆ System Memory
  - 1 x 200-pin single channel DDR2 SO-DIMM 400/533MHz up to 2GB
- ◆ Ethernet
  - 10/100Mbps Realtek RTL8102E Ethernet chipset (PCIe Interface)
- ◆ I/O Interface
  - 4 x RS-232
  - 1 x RS-422/485 (Shared with COM2)
  - 4 x USB 2.0
  - 1 x IDE
  - 1 x KB/MS
  - 1 x CF type II Socket
- ◆ Expansion
  - PC-104 Slot (PCI BUS)
- ◆ Digital I/O
  - 8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ Super I/O
  - SMSC 3114NU
- ◆ Display Interface
  - 18/24-bit single channel LVDS
  - VGA support by LVDS to VGA Module (LVDS-VGA-R10)
- ◆ Audio
  - 7.1 channel HD audio kit with Realtek ALC883 codec supports dual audio streams
- ◆ Watchdog Timer
  - Software programmable supports 1 ~255 sec. System reset
- ◆ Power Supply
  - 5V only, AT/ATX support
- ◆ Power consumption
  - 5V@1.84A (Intel® Atom™ Z510 1.1GHz with 1GB DDR2)
- ◆ Temperature
  - operating: 0°C ~ +60°C
- ◆ Humidity
  - operation: 5% ~95%non-condensing
- ◆ Dimensions
  - 96 mm x 90 mm
- ◆ Weight
  - GW: 650g / NW: 250g

## Dimensions



## Packing List

1 x PM-US15W single board computer	1 x Mini jumper pack
1 x IDE flat cable 44p/44p (P/N: 32200-000009-RS)	1 x Quad ports RS-232 cable (P/N: 32200-025401-RS)
1 x RS-422/485 cable (PN: 32000-074800-RS)	2 x Dual USB ports cable (P/N: 32000-070300-RS)
1 x Utility CD	1 x QIG

## Ordering Information

Part No.	Description
PM-US15W-Z530-R10	PCI-104 SBC Intel® Z530 1.6GHz with LVDS, USB, CF, 4COM
PM-US15W-Z510-R10	PCI-104 SBC Intel® Z510 1.1GHz with LVDS, USB, LAN, CF, 4COM
LVDS-VGA-R10	LVDS to VGA converter board
AC-KIT883HD-R10	7.1 channel HD audio Kit with realtek ALC883 codec support dual audio streams
ITS-44-R10	2.5" IDE to SATA module