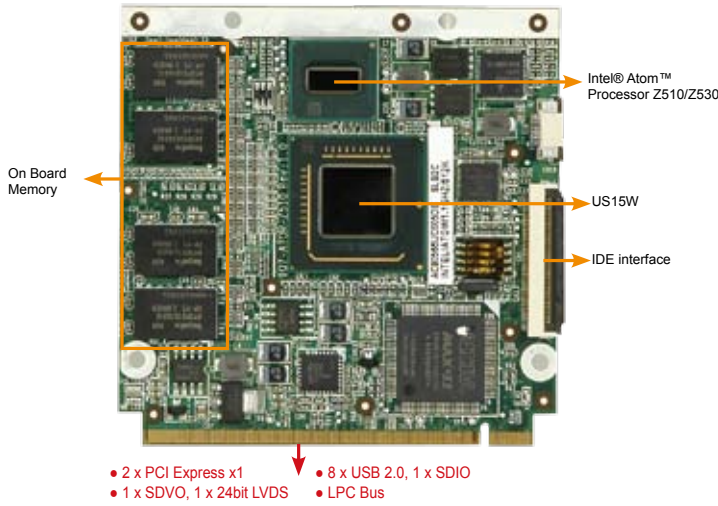


# iQ7-US15W

## Q7 CPU module with Intel® Atom™ Processor Z510/Z530



| Max Display Resolution:<br>LVDS: 1366 x 768 (24bit color) , SDVO: 1280 x 1024 |   |   |
|---|---|---|
| Model   | iQ7-US15W-Z530  | iQ7-US15W-Z510  |
| CPU   | <ul style="list-style-type: none"> <li>• Z530</li> <li>• 1.6 GHz</li> <li>• 13 x 14 mm HDI</li> <li>• HT, No VT</li> <li>• 533MHz FSB</li> <li>• TDP: 2.3W</li> </ul> | <ul style="list-style-type: none"> <li>• Z510</li> <li>• 1.1 GHz</li> <li>• 13 x 14mm HDI</li> <li>• No HT, No VT</li> <li>• 400MHz FSB</li> <li>• TDP: 2.0W</li> </ul> |

### Solder Side



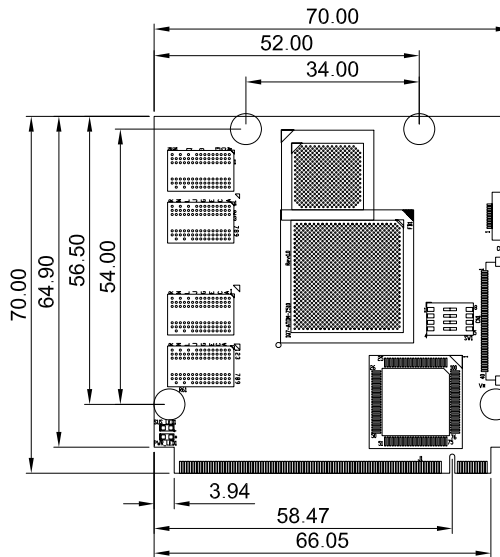
## Features

1. Intel® Atom™ Processor Z510/Z530 Low power CPU with single 5V low power design
2. High Graphic Performance supports H.264, MPEG1/2/4, VC1/WMV9 High Definition decode
3. Single Channel 24bit LVDS supported
4. On board memory 1GB supported
5. SPI Interface supported

## Specifications

- ◆ CPU
  - Intel® Atom™ Processor Z530 1.6GHz with a 533MHz FSB
  - Intel® Atom™ Processor Z510 1.1GHz with a 400MHz FSB
- ◆ System Chipset
  - Intel® US15W
- ◆ BIOS
  - AMI BIOS
- ◆ System Memory
  - On board 1GB DDR2 SDRAM supported
- ◆ I/O Interface
  - 8 x USB 2.0 (to base board)
  - 1 x IDE (On CPU module)
  - 1 x LPC Bus (to base board)
  - 1 x Single channel 18/24 bit LVDS (to base board)
  - 1 x SDIO (to base board)
  - 1 x SDVO (to base board)
- ◆ Expansion
  - 2x PCIe x1 (to base board)
- ◆ Display Interface
  - Intel® Graphics media accelerator 500
  - SDVO / Single channel 24 bit LVDS Integrated in Intel® US15W (to base board)
  - Max Display Resolution:  
LVDS: 1366x768 (24 bit color)  
SDVO: 1280 x 1024
- ◆ Watchdog Timer
  - Software programmable supports 1 ~255 sec. System reset by Winbond W83L784G
- ◆ Power Supply
  - 5V only, AT / ATX supported
- ◆ Power consumption
  - 5V@1.34A (Intel® Atom™ Z530 1.6GHz with 1GB DDR2)
  - 5V@1.255A (Intel® Atom™ Z510 1.1GHz with 1GB DDR2)
- ◆ Temperature
  - operation: 0°C ~ 60°C ( 32°F ~ 140°F)
- ◆ Humidity
  - operation: 5% ~95 non-condensing
- ◆ Dimensions
  - 70 mm x 70 mm
- ◆ Weight
  - GW: 600g / NW: 100g

## Dimensions(mm)



## Ordering Information

| Part No.            | Description  |
|---------------------|--|
| iQ7-US15W-Z510-R10  | Q7 module with Intel® Atom™ Z510 1.1GHz, SDVO/LVDS, LAN, USB, SD, IDE, on board 1GB memory           |
| iQ7-US15W-Z510W-R10 | Q7 module with Intel® Atom™ Z510 1.1GHz, SDVO/LVDS, LAN, USB, SD, IDE, on board 1GB memory, -20~70°C |
| iQ7-US15W-Z530-R10  | Q7 module with Intel® Atom™ Z530 1.6GHz, SDVO/LVDS, LAN, USB, SD, IDE, on board 1GB memory           |
| iQ7-US15W-Z530W-R10 | Q7 module with Intel® Atom™ Z530 1.6GHz, SDVO/LVDS, LAN, USB, SD, IDE, on board 1GB memory, -20~70°C |
| iQ7-DB-MITX-R10     | Mini ITX form factor base board for Q7 module, RoHS  |
| 32400-307900-RS     | 15 cm 1.8" IDE FFC cable   |

## Packing List

|                   |         |
|-------------------|---------|
| 1 x Q7 CPU module |         |
| 1 x Heatsink      |         |
| 1 x Utility CD    | 1 x QIG |