

# ITP-104

The World's first Panel Computer  
based on the new Intel®/Marvell XScale® Monahans Processor



## Features

- 10.4" SVGA Bright TFT Touchscreen
- Integrated Power over Ethernet (PoE)
- Powerful PXA320 (Monahans) 806MHz CPU
- Low power, high performance cold running system
- All-aluminum sealed
- Waterproof conforming IP-65 standard
- No moving parts, no ventilation holes

# ITP-104

## Technical Specifications

### Processor

**Type:** Intel XScale® PXA270/PXA320 (32Bit)  
**Speed:** 312, 520 and 806 MHz<sup>1</sup>

### Memory RAM

**64 MB** SDRAM (32 bit) for PXA270  
**128 MB** DDR (32 bit) for PXA320

### On-board Flash

**32 MB** NOR Flash (32 bit) for PXA270  
**64 MB** NAND Flash (16 bit) for PXA320

### Display

**Display Technology:** SVGA TFT  
**Touch Technology:** Resistive type, 4-wire  
**Screen Size:** 10.4"<sup>2</sup>  
**Native Resolution:** 800x600 (Color 18Bit)

### Inputs and Outputs

**Network:** 1 x RJ-45 100Base-TX (POE opt.)  
**USB Ports:** 2 x 1.1 Compliant (Host/Client)  
**Serial Ports:** 2 x UART (RS-232)  
**Audio:** 1x Line In/Out Stereo Jack (3.5 mm)  
**Micro SD Card Slot:** 1x Push-push type  
**Power On/Off:** 1x Miniature rocker switch  
**DC-in:** 1 x Power Jack

### Storage

**Type:** SD Card Memory  
**Capacity:** 32MB up to 4GB

### Power

**Power requirements:** 8-16 VDC, 8 Watt  
**Connector:** Power Jack or IP-65 compliant  
**Optional:** Power-over-Ethernet (POE) or 18-30 VDC input range

### Software

**Operating System:** Microsoft® Windows® CE 5.0, real time OS (Core license included)  
Linux solutions provided on request.  
**Supplied Software:** Image Flash Updater, WebServer, FileServer, Terminal Services Client (RDP), Internet Explorer, E-mail client, Wordpad, Media Player, Power Point/PDF file/Image Viewer. For a complete listing of software contact us.

### Development Environment

Microsoft® Visual Studio 2003/2005  
Microsoft® eMbedded Visual C++ 4.0  
.NET Compact Framework 2.0  
SQL Server 2005 Mobile Edition

### Optional Accessories

Desk stand /Wall mount (VESA 75 standard)  
Serial adapter cable (RJ48-DB9)

### Optional Features

Embedded speaker and microphone  
Embedded Infrared Motion Sensor  
Wireless 802.11b/g  
Bluetooth  
Integrated iButton/1-Wire Reader

### Future Features

CAN Interface  
Multi-function GPIOs (I<sup>2</sup>C,PWM,SSP)  
Lithium-ion Powerfail Battery

### User Environment

**Operating Temperature:** 0°C to 50°C  
**Storage Temperature:** -25°C to 70°C  
**Humidity:** 5% to 80% (noncondensing)

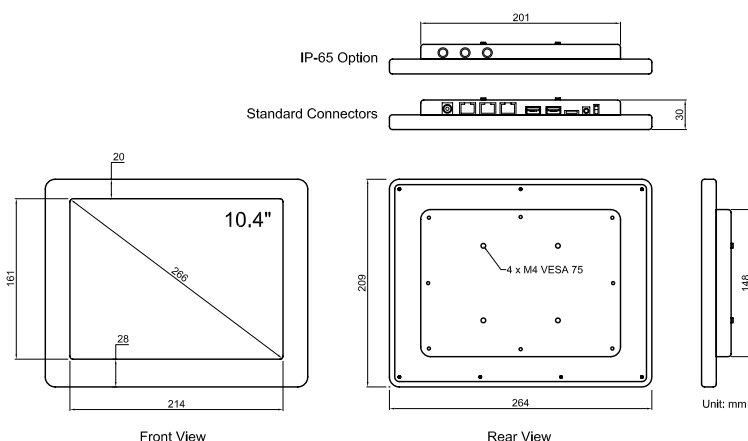
### Physical Characteristics

**Dimensions:** 209(H) x 264(W) x 30(D) mm  
**Weight:** 3.7 lbs/1.7 kg (typical)  
**Color:** Silver

### Service and Warranty Information

**Limited Warranty:** 1 Year Limited Warranty<sup>3</sup>  
**Telephone Support:** 1 Year Technical Assistance  
**Email Support:** support@contendosystems.com

1. MHz denotes microprocessor internal clock speed; other factors may affect application performance.
2. Viewable area measured diagonally.
3. See actual limited warranty for details. For a copy of the warranty, please visit [www.contendosystems.com](http://www.contendosystems.com).



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