

TR-ITX-ATOM

TR-ITX-ATOM Industrial Half Fanless Panel PC



TR-ITX-ATOM Half Fanless Industrial PC with Intel ATOM processor

This version of the TR-ITX computer has been designed for applications that require low cost and long-term reliability. The design is based on the Intel ATOM processor, which needs only 2.5W of power, extending operating temperature range 0 ~ 60°C. Computer board has no processor fan. 2 external redundant high quality air fans are used to extend operating range of temperature.

The ITX type industrial motherboard is based on the Intel 945GSE chipset, Intel GMA 950 SVGA and Intel 82574L dual Gigabit LAN. This computer can be supplied with a 2.5" SATA drive and optional SLIM CD-R/W-DVD. Use of the Solid State flash disk in place of the hard drive is highly recommended to increase reliability of the system.

TR-ITX-ATOM computer can be attached to any of the TR-LCD series 15" and 19" monitors to become a rack or panel mount TR-LCDXX-PC with a touch screen. It connects with LCD screen via internal LVDS interface.

The input power is 12 VDC and universal 100 to 240 VAC 60W adapter is supplied. Input power options include 12, 24, 48, 125 and 250VDC.

Pricing of the basic TR-ITX-ATOM starts at \$599 for a fully configured system. This includes 1GB of high temperature memory and high temperature 16GB high speed flash drive. Warranty is 3 years.

Transduction

Half Fanless Panel Mount Computer

TR-ITX-ATOM

Specification

Model

- ▶ TR-ITX-ATOM

Processor

- ▶ Intel ATOM with passive heatsink
- ▶ 2 x external redundant slowed down air fans

Chipset

- ▶ Intel 945GSE

Memory

- ▶ DDR2 400/533MHz up to 2GB

Video

- ▶ Intel GMA950 with Extreme Graphics 2 interface, external DB15 connector

Green Function

- ▶ Power saving mode includes doze, standby and suspend modes

Disk I/O

- ▶ Optional SLIM CD-R/W-DVD
- ▶ 2.5" SATA high speed flash 16GB to 128GB or 2.5" SATA hard drive

I/O Ports

- ▶ 1 x external RS232 serial port and 1 x RS232/422/485 serial port with 16C550 compatible UART's and 16 bytes FIFO
- ▶ 4 x high speed USB 2.0 with 480Mbps of transfer rate

Ethernet

- ▶ Chipset 945GSE
- ▶ 2 x Intel 82574L Gigabit LAN
- ▶ External RJ45 connectors

Watchdog Timer

- ▶ System reset programmable watchdog timer with 1 ~ 255sec/min of time-out value

Power Requirements

- ▶ 12VDC
- ▶ External power supply - universal 100 ~ 240VAC, 60W without fan
- ▶ Output is 12VDC - UL, C-UL, VDE electrical approvals

Operating Temperature

- ▶ 0°C ~ 60°C (32°F ~ 140°F) with SSD
- ▶ 0°C ~ 50°C (32°F ~ 122°F) with hard drive

Storage Temperature

- ▶ -20°C ~ 85°C (-4°F ~ 185°F)

Humidity

- ▶ 10% ~ 90% non-condensing

Shock and Vibration

- ▶ shock - 25G, vibration - 5G

Dimensions

- ▶ 2 9/16" (3 3/16" with CD/DVD) (H) X 6.75" (D) X 9.5" (W)

Warranty

- ▶ 3 years

Ordering Information

- ▶ TR-ITX-ATOM - Panel mount PC with Intel 1.6GHz ATOM processor with 512MB cache
- ▶ TR-ITX-AC60W - Universal AC 60W power supply, output 12VDC
- ▶ TR-ITX-ATOM-DC12 - Internal automotive power supply

Options

- ▶ SLIM CD-R/W-DVD
- ▶ 12, 24, 48, 125 and 250VDC input power
- ▶ Anti-vibration isolators