

TR-ITX-ATOM

TR-ITX-ATOM Half Fanless Industrial Computer



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

The TR-ITX-ATOM computer has been designed for applications that require low cost and long-term reliability. The design is based on the Intel ATOM processor, extending operating temperature range 0 ~ 60°C. Computer board has no processor fan. Two 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 and ICH7M chipset, Intel GMA 950 Graphic Engine interface and Realtek RT8111C 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-ITX with a touch screen. It connects with LCD screen via internal LVDS interface.

The input power is 12 VDC \pm 10% and universal 100 to 240 VAC 100W adapter is supplied. Input power options include 125 and 250VDC.

The basic TR-ITX-ATOM includes 1.6GHz Intel ATOM processor, 2GB of high temperature memory and high temperature 32GB high speed flash drive. Warranty is 3 years.

TR-ITX-ATOM

TR-ITX-ATOM Half Fanless Panel Mount Computer

Specification

Model

- TR-ITX-ATOM NEMA 4 industrial half fanless panel mount computer with 1.6GHz processor

Processor

- Intel ATOM N270 1.6GHz with hyperthreading support
- No processor air fan

Chipset

- Intel 945GSE and ICH7M

BIOS

- Award PnP Ver. 6.0

Memory

- DDR2 533MHz 2GB

Ethernet

- 2 x Realtek RT8111C Gigabit LAN
- External RJ45 connectors

Display

- Intel GMA950 Graphic Engine interface, DB15 SVGA 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 32GB ~ 128GB or 2.5" SATA hard drive

Audio

- Realtek ALC888 high definition

I/O Ports

- 1 x external RS-232 serial port and 1 x RS-232/422/485 serial port with 16C550 compatible UART's and 16-byte FIFO

- 1 x parallel printer port
- 4 x high speed USB 2.0 ports with 480Mbps transfer rate

Watch-Dog Timer

- System reset programmable watchdog timer with 1 ~ 255sec time-out value

Operating Temperature

- 0 ~ 50°C (32 ~ 122°F) with hard drive
- 0 ~ 60°C (32 ~ 140°F) for 2 hours with SSD

Storage Temperature

- -20 ~ 85°C (-4 ~ 185°F)

Cooling

- 2 x redundant ball bearing air fans operating at only half rated speed

Shock and Vibration

- Shock - 25G, Vibration - 5G

Humidity

- Relative humidity 10 ~ 95%, non-condensing
- Storage: Relative humidity 45% max. non-condensing

Power requirement

- DC input 12V ±10% at 1.4A maximum current with 100% software load
- Optional DC input 125V and 250V

Dimensions

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

Compatible with Windows XP 32-bit, Windows 2000, QNX and Linux kernel 2.4.16 or above

Ordering Information

- TR-ITX-ATOM-AC100W - Includes universal 100 ~ 240VAC 100W 12VDC power adapter

Warranty: 3 years