

### TR-ITX-i5/i7

TR-ITX-i5/i7 Industrial PC w/ Intel Mobile i-Series



#### Features

The TR-ITX-i5/i7 computers have been designed for industrial applications that require long-term reliability. The design is based on the Intel i5/i7 mobile processor, extending operating temperature range 0 ~ 60°C (32 ~ 140°F). Computer board has no processor fan. Power consumption with i5 2.6 Ghz processor is only 24W. Two external redundant high quality air fans are used to extend operating range of temperature and to recirculate the air inside the industrial enclosures.

The ITX type industrial motherboard is based on the Intel QM77 with high performance 3D graphics based on Intel HD 4000 graphics technology. This makes them ideal for use with the popular industrial HMI software such as Wonderware for Invensys or Genesis from Iconics. Intel i5/i7 processors allow for high speed applications that implement PID loops in their software.

This computer can be supplied with one or two (RAID1) 2.5" SATA hard drives and optional SLIM CD-R/W-DVD. Use of the flash disk in place of the hard drive is highly recommended to increase reliability of the computer for clients with limited data logging applications.

TR-ITX-i5/i7 computer can be attached to any of the TR-LCD series 15" and 19" monitors to become a rack or panel mount TR-LCDXXX-ITX with a touch screen. Connection with LCD screen is via internal LVDS interface.

The input power is 9 to 24 VDC ±10% and universal 100 to 240 VAC 100W adapter is supplied.

Input power options include 110/220VAC or 12, 24, 48, 125 and 250VDC.

Warranty is 3 years with technical support for life.

## TR-ITX-i5/i7

### Specification

#### Model

- TR-ITX-i5/i7 Industrial half fanless panel or rack mount computer

#### Processor

- Intel i5 2.6Ghz or i7 3.4Ghz

#### Chipset

- Intel QM77 with Intel 4000 3D HD graphics

#### BIOS

- Phoenix Secucore

#### Memory

- DDR3 1066/1333MHz up to 16GB

#### Ethernet

- 1 x Intel 82579LM Gigabit LAN with ATM 8.0 support
- 1 x Intel 82574L Gigabit LAN

#### Display

- SVGA DB15 connector or DVI 20-pin connector

#### Disk Storage

- One or two 2.5" SATA hard drives, 500 or 1000GB. Optional 64GB or 128GB flash drive with S.M.A.R.T. and SUPERCAP features. Optional RAID1.

#### CD-DVD-R/W (Optional)

- SATA

#### Audio

- Realtek ALC888 high definition sound

#### Power Saving Mode

- Includes doze, standby and suspend modes, ACPI 3.0 support

#### External I/O Ports

- SVGA or DVI port, 2 x RJ-45 ports, 2 x RS232 serial ports, 1 x RS232/422/485 serial port, 4 x USB ports and 1 2 channel audio

#### Watch-Dog Timer

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

#### Operating Temperature

- 0 ~ 50°C (32 ~ 122°F), 60°C (140°F) for 2 hours

#### Storage Temperature

- -20 ~ 85°C (-4 ~ 185°F)

#### Cooling

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

#### Humidity

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

#### Power Requirement

- DC input 9-24VDC  $\pm 10\%$ , 24W with i5 processor, 30W with i7 processor
- Includes universal AC 19VDC 100W power adapter
- Optional DC input 12, 24, 48, 125 and 250V.

#### Shock & Vibration

- 25G and 5G

#### Compliance: Electrical Safety Approval, CE and FCC Class B

#### Compatible with Windows XP, Windows Vista, Windows 7, Windows 2000, QNX and Linux kernel 2.4.16 or above

#### Dimensions

- 2.56" (3.19" with CD/DVD) (H) x 6.75" (D) x 9.5" (W)

#### Weight

- 2kg (4.4lbs)

#### Warranty: 3 years with technical support for life

#### Ordering Information

- TR-ITX-i5-AC100W - Includes universal 100 ~ 240VAC 100W 19VDC power adapter
- TR-ITX-i7-AC100W - Includes universal 100 ~ 240VAC 100W 19VDC power adapter
- TR-ITX-CD/DVD-R/W