

Transduction

Reliable Industrial Computer with Intel i5 Processor

TR-590

TR-590 1U Half Fanless Rack Mount Computer



Features

- Mini-ITX motherboard with Intel Core i-Series, i5 2.7GHz processor with passive heatsink.
- 1U half fanless enclosure with no processor fan to fail.
- Integrated Intel H77 Express chipset.
- 0 ~ 50°C operating temperature with full software load, 60°C for 2 hours.
- Dual SODIMM sockets up to 8GB DDR3 1066/1333/1600MHz high temperature memory.
- Multiple I/O functions - 4 x USB 3.0/2.0, 1 x DisplayPort, 1 x HDMI , 1 x LAN, and 2 x audio ports.
- High speed MLC or SLC industrial flash SATA MLC or SLC 64GB or 128GB drives or 2.5" server-class 500GB or 1TB hard drive.
- Internal PCIe x4 up to 25W (3.0) and mini PCIe x1 expansion slots.
- Warranty 3 years with telephone service support for life.
- Manufactured by Transduction in Canada, always in stock.
- MTBF is in excess of 100,000 work hours.

TR-590

Specifications

Model

- TR-590 industrial half fanless rack mount computer with Intel i5 2.7GHz processor

Processor

- Intel i5 2.7GHz processor
- No processor air fan

Chipset

- Intel H77 Express

BIOS

- AMI EFI, PnP 1.0a, DMI 2.0, SM BIOS 2.6, ACPI 2.0a

Memory

- SODIMM DDR3 1066/1333/1600MHz up to 8GB

Ethernet

- 1 x Realtek GbE LAN 10/100/1000Mbps

Video

- HDMI/DVI for 1920 x 1200
- DisplayPort for 2560 x 1600

Disk I/O

- 2.5" SATA high speed flash 60GB or 120GB MLC or SLC industrial drives or 2.5" SATA server-class hard drive

Audio

- Realtek ALC887 CODEC high definition

I/O Ports

- 1 x HDMI
- 1 x DisplayPort
- 4 x rear USB 3.0/2.0 ports

Expansion Slots

- PCIe x4 up to 25W (3.0)
- Mini PCIe x1

Storage

- 2 x 6Gbs SATA, 2 x 3Gbs SATA, 1 x mSATA, RAID 0,1,5,10

Power

- Power consumption @ full software load - 40W
- 90-250VAC ~ 50/60Hz 60W internal 12VDC power adapter
- Optional 125VDC and 250VDC input power

Operating Temperature

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

Storage Temperature

- -10 ~ 85°C (14 ~ 185°F)

Humidity

- Relative humidity 10 ~ 90%, non-condensing
- Storage: Relative humidity 45% max. non-condensing

Cooling

- 2 x redundant 50% slowed down ball bearing air fans

Compliance

- ESA, FCC Class A/B and CE

Shock & Vibration

- Shock - 25G, Vibration - 5G

Altitude with flash SSD

- 30,000ft

MTBF

- > 100,000 hours

Dimensions

- 1U 1.75" (undersized) (H) X 9.0" (D) X 19" (W) rack mount (17" behind the "ears")

Warranty: 3 years

Options

- Dual channel DDR3 memory up to 8GB
- Server-class 500GB or 1TB SATA hard drives
- Industrial MLC or SLC flash 60GB or 120GB drives
- Universal AC 90-250VAC power supply
- 125VDC (90 to 150V) power supply
- 250VDC (200 to 275V) power supply
- Up to 4 isolated RS232 and/or RS422/485 ports