

Transduction

All Solid State Industrial Computer
for DOS O/S Runs on 2W of Power

TR-386-RM

TR-386-RM 1U Half Fanless Rack Mount Computer



Features

- Reliable 1U (1.75") fanless rack mount computer with no moving parts, designed for Microsoft DOS O/S.
- Intel 386-EX 25Mhz processor with 512KB SRAM and 512K flash.
- Pre-installed DOS O/S with TCP/IP and web server software + flash file system.
- 1 x 10Base-T LAN port (NE compatible), 1 x RS232 serial port, 1 x RS232/RS485 software selectable.
- Ready to use industry standard connectors.
- Options: 32-pin DIP socket to accept 512K SRAM, 512K flash or M-Systems DiskOnChip.
- Watchdog Timer.
- Digital I/O interface options.
- Operating temperature -20°C to 85°C.
- 7-34VDC, 2W, universal AC/DC power adapter with ESA included.
- Warranty 3 years with telephone service support for life.
- Standard stock product at Transduction.

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Specifications

Model

- TR-386 1U half-fanless rack mount computer with Intel 386-EX processor

Processor

- Intel 386-EX @ 25MHz
- No processor air fan

Memory

- SRAM 512KB

Ethernet

- 1 x 10Base-T RJ45 ethernet port (NE2000)

Disk I/O

- 512K Flash DiskOnChip

I/O Ports

- 1 x RS232 with 5 handshake lines COM1, address 0x3F8, IRQ4 115200 baud maximum
- 1 x RS232 no handshaking or RS485 half duplex COM2, address 0x2F8, IRQ3 115200 baud maximum
- Digital I/O 10-bits (P3.0-P3.5 & P1.4-P1.7), pin configurable as input or output, P3.3 and P3.4 configurable as interrupts, 8mA source/sink

Connectors and Jumpers

- J1 - general I/O and synchronous serial
- J2 - RS485
- J3 - COM1
- J4 - COM2/console
- J5 - Multi-I/O Bus (general I/O)
- J8 - power
- J10 - Ethernet
- JP1 - watchdog NMI enable
- JP2 - socket memory type
- JP3 - boot memory location uFlashTCP

Watch-Dog Timer

- System reset programmable watchdog timer, generates processor NMI

Sync

- Serial full duplex, independent Rx and Tx clocks
- Master or slave operating mode

Operating System

- Pre-installed Microsoft XDOS (MS/PC DOS 3.3 compatible) with TCP/IP and web server software

Power

- 7 - 34VDC $\pm 10\%$ input with external universal AC/DC power adapter included
- 400mA (nominal)
- Power consumption - 2W

Operating & Storage Temperature

- -20 ~ 85°C (14 ~ 185°F)

Humidity

- Relative humidity 5 ~ 90%, non-condensing

Shock and Vibration

- Shock - 25G, Vibration - 5G as per MIL standard

Dimensions

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

Weight

- 2lbs (1kg)

Options

- M-Systems DiskOnChip flash disk
- Battery backed clock calendar chip with 128K SRAM (20-0074)
- 48 digital I/O expansion capability

Warranty: 3 years