

# Transduction

Intel Pentium 4 3.0GHz CPU with MicroAGP

TR-840

TR-840 Industrial PICMG 1.0 Single Board Computer



## Features

- PICMG 1.0 industrial single board computer.
- For Intel socket 478, Intel Pentium 4 3.0GHz CPU.
- Intel 865G chipset.
- 2 x DDR sockets, supports up to 2GB DDR 266/333/400 SDRAM, non-ECC memory.
- Intel Gigabit 10/100Mb LAN
- Multiple I/O functions: 4 x USB 2.0 ports, 1 x RS-232/422/485 COM port, 1 x RS-232 COM port, 1 x MicroAGP, 2 x SATA II ports and 1 x LPT (parallel) port.
- Compatible with ISA legacy cards that need bus-master control.
- Display interface: CRT and 24-bit dual channel LVDS.
- Built in W83627HF monitor system/CPU temperature and voltage status.
- System reset programmable watchdog timer, 1-255sec.
- ICH5 integrated audio with AC97, 5.1 channel support.
- 0 ~ 60°C (32 ~ 140°F) operating temperature with full software load.
- Compatible with older Windows operating systems.
- Actual MTBF >100,000 hours

### TR-840

#### Specification

##### Processor

- Intel Pentium 4 3.0Ghz

##### Processor Socket

- Socket 478

##### Chipset

- Intel 865G

##### Memory

- 2 x DDR sockets, up to 2GB 266/333/400MHz DDR SDRAM, non-ECC

##### BIOS

- Award BIOS, ACPI supported

##### Gigabit LAN

- 1x Intel 82551 10/100Mbps

##### Video

- Integrated 82865G AGP4X VGA for CRT interface
- One D-Sub connector on bracket for CRT display
- One 40-pin connector for dual 24-bit LVDS LCD

##### On Board I/O

- 1 x VGA
- 1 x LVDS
- 1 x RS232/422/485 (COM2) and 1 x RS232 (COM1)
- 1 x parallel port supports SPP/EPP/ECP
- 2 x SATA-II
- 4 x USB 2.0
- 1 x PS/2 keyboard/mouse

##### IDE Interface

- Built in ICH5; Two enhanced IDE supports 4 IDE devices including UDMA33/66/100, PIO mode 4 and bus master

##### LPC I/O

- W83627HF chipset supports IrDA x 1, Parallel x 1, COM1 (RS232), COM2 (RS232/422/485), FDC up to 2.88MB (3 Mode support), Hardware Monitor (3 thermal inputs, 6 voltage monitor inputs, VID0-4, 3 fan headers)

##### Optional MicroAGP

- ATI Mobility M7 VGA, 32MB frame buffer (DDR)

##### Audio

- CH5 integrated audio with AC97; 5.1 channel support

##### Hardware Monitoring

- Built in W83627HF; monitors system/CPU temperature and voltage status

##### Watch-Dog Timer

- Programmable watchdog timer for 1 ~ 255sec.

##### Cooling

- One CPU fan connector near CPU socket
- One system fan connector for system cooling

##### Operating Temperature

- 0 ~ 60°C (32 ~ 140°F)
- Relative humidity 10 ~ 90%, non-condensing

##### Storage Temperature

- -20 ~ 80°C (-40 ~ 176°F)

##### Form Factor

- 338mm (L) x 122mm (W) (13.3" (L) x 4.8" (W)) PICMG 1.0 compliant

##### Power

- One ATX 12V 4-pin connector for CPU power
- Power consumption: +5V: 6.4A +12V: 6.3A

Compatible with Windows 98SE, Windows NT, Windows 2000, Windows XP

Warranty: 3 years