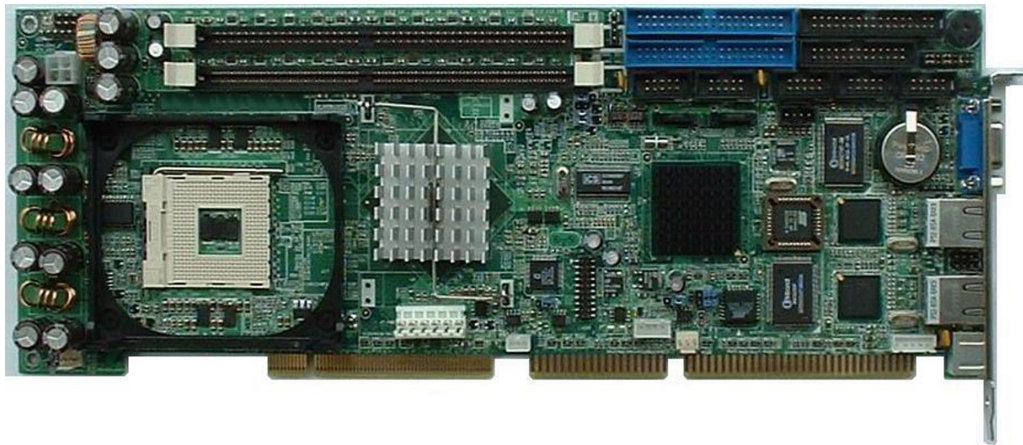


Transduction

TR-979

Guaranteed supply until year 2017

TR-979 Single Board Computer



Features

- ▶ 3.0 GHz Pentium 4 Prescott (90nm) processor with 400/533/800M FSB speed selectable. Intel VRD 10.1 compliant.
- ▶ Dual Intel Gigabit Ethernet controller on board boost networking throughputs to 4Gb/s
- ▶ Server-grade LAN with Teaming and Fault-Tolerance support
- ▶ Dual Channel Memory bus doubles the data rate, up to 6.4GB/s.
- ▶ Two serial ports. One is RS232/422/485 selectable.
- ▶ AC97 3D Audio CODEC on-board
- ▶ One LVDS connector supports diffused LVDS TFT panels. LVDS cable kit is available.
- ▶ Dual SATA ports with classic IDE, RAID 0 or RAID 1 modes. Rebuild supported in RAID 1 mode with Intel IAA software.
- ▶ On-Board AT-P8 and ATX-12V Power connector for stand-alone system configuration
- ▶ Four USB2.0 ports. USB2.0 cable kit is available to mount UBS connector on chassis or bracket.
- ▶ Hardware Monitor and Watch-Dog timer. System will alert administrators when in case of abnormal conditions.
- ▶ Boot Agent for both RPL and PXE protocols integrated into system BIOS
- ▶ Supports remote wake up on LAN and Modem
- ▶ LAN LEDs built-in RJ45 connector to display Speed, Link an activities. External connector is available to display LAN status on front Panel.
- ▶ Compatible with ISA legacy cards that need bus-master control
- ▶ Actual MTBF > 100,000 hours

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Specification

Processor

- ▶ Intel Pentium 4 Prescott and Northwood Processor, up to 3.2GHz.- FSB speed 400/533/800MHz jumper selectable.

Processor Socket

- ▶ mPGA-478 Socket

Chipset

- ▶ Intel 865G and 82801ER(ICH5R)

Memory

- ▶ Two 184-pins DDR DIMM sockets support Dual Channel Mode. - Up to 2GB Memory capacity. DDR266/333/400 speed selectable by BIOS.

BIOS

- ▶ Award ACPI BIOS on 4M-bit Flash ROM with Flash EEPROM update utility

GigaBits LAN

- ▶ Dual Intel Gigabits Ethernet LAN ports. Intel 82547GI and 82541GI controller.- Compliant with IEEE802.3, IEEE 802.1Q VLAN, 802.1P priority packets, 802.1X flow control and auto-negotiation.- Dual-LAN design supports teaming, fault-tolerance and Load-Balancing.- Host Off-loading features to minimize CPU utilization.- Boot Agent integrated into system BIOS, supports PXE and RPL protocol.- ASF1.0 and ASF2.0 support capable (Option).

VGA

- ▶ 865G integrated Extreme Graphics 2 engine. - Support Dual Display on both CRT and LVDS LCD interface.

IDE

- ▶ Two Bus Master EIDE Channel support PIO Mode 3/4, Ultra DMA33/66/100 IDE HDD, ATAPI CD-ROM and LS-120 drive.-

Support up to 4 devices.

SATA

- ▶ Two SATA ports, runs up to 150MB/s.- RAID 0 and RAID1 modes. RAID Option-ROM in BIOS.

Super I/O

- ▶ Winbond W83627
- ▶ 1x IrDA.- 2x Serial ports. COM2 is RS-232/422/485 selectable.- 1x Parallel port (SPP/EPP/SCP).- 1x FDD port, 1x PS2 KBD and 1x Mouse. 6x Universal USB ports.

3D Audio

- ▶ ALC201A 3D AC97 Audio CODEC with Line-OUT, Line-In, Microphone and CD-IN.- Cable Kit with bracket is available.

Hardware Monitoring

- ▶ PC Health Monitoring ASIC on-board to monitor system power, FAN speed as well as processor and system temperatures.

Watch-Dog Timer

- ▶ Programmable watchdog timer from 8~90 seconds- Timeout event can be system Reset or NMI

Form Factor

- ▶ 13.3" (L) x 4.88" (W), PICMG 2.0 Compliant

Power requirement

- ▶ 6A @ +5V(typical) ; 8A @ +12V (typical); 100mA @ -12V

Compatible with all Windows including Vista & Windows NT, Linux & QNX

Ordering Information

- ▶ Pentium-4 PICMG SBC with VGA/DUAL-LAN/AUDIO/LVDS/SATA

Warranty: 2 years / 3 years in system