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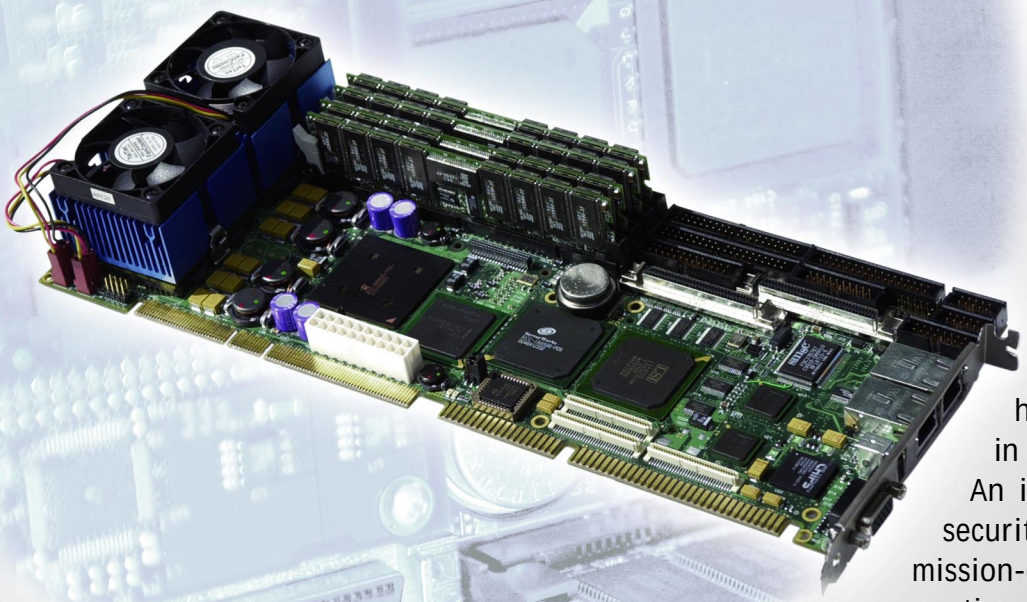
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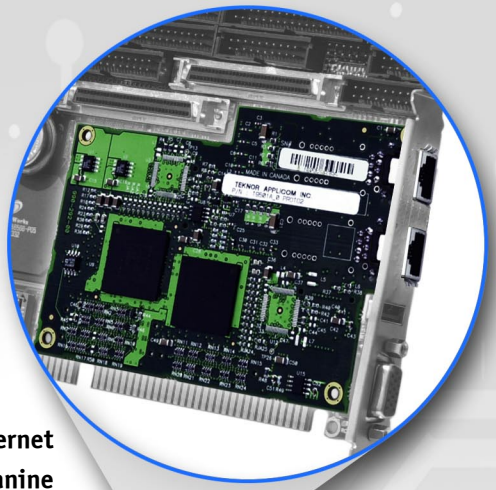
PCI-990

A quantum leap into high performance, high speed communications



The state-of-the-art dual CPU PCI/ISA Single Board Computer that packs new high power with two Intel®Pentium® III processors providing speed, performance, reliability and flexibility.

The Kontron PCI-990 is designed to accommodate the endless demands for a high performance engine in platforms used in the embedded datacom/telecom market. An ideal SBC for high performance Internet security and data center solutions, as well as mission-critical CTI and demanding embedded computing applications. It is fully compatible with Kontron's 1U, 2U, and 6U chassis such as the Kontron DreamSpeed and CoreVox families of platforms.



Gigabit Ethernet Mezzanine



Features:

- Dual Intel® Pentium® III processors 1.26 GHz
- Up to 133 MHz front-side bus
- 256/512K of L2 Cache
- Up to 4 GB of SDRAM
- 64-bit PCI bus
- Choice of Dual Ethernet ports:
  - 10/100Base-TX
    or
  - 1000Base (T or S/LX) based on Intel® 82544 Ethernet controller with copper- or optic-type interface available only with Kontron's custom-built mezzanine
- Dual-channel Ultra160 SCSI LVDS/SE (optional)
- Two EIDE hard disk interfaces
- Three USB ports
- Watchdog Timer
- Board and CPU temperature monitoring

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PCI-990 Technical Specifications

CPU
- Dual Pentium III Processor 1.26GHz
- Serverworks ServerSet III LE chipset (CNB30LE north bridge & OSB4 south bridge)

Bus Interfaces
- Front Side Bus at 133 MHz
- PCI Bus (33MHz - PCI bus and 66MHz - PCI bus Rev. 2.1 : Gigabit, SCSI, External backplane)
- ISA Bus (8.33MHz)

Cache
- 16/16KB Instruction / Data Level 1
- 512KB Advanced Transfer Cache (on-die, full speed L2 cache with ECC)

Memory
- Four 168-pin latching DIMM sockets, 64/72-bit
- Up to 4 GB of PC-133 RSDRAM, 133 MHz Registered SDRAM non-ECC/ECC mode (single bit error correction, multiple bit detection via Serverworks ServerSet III LE); all 4 GB cacheable (per CPU)

Data Path
- 64-bit on CPU; 32-bit and 64-bit on PCI busses, 16-bit on ISA bus

DMA Channels (ISA)
- Four 8-bit, three 16-bit
- Supports scatter / gather, Fast Type-F DMA

Interrupts
- 11 edge sensitive and configurable
- 4 PCI level sensitive, configurable to any interrupt vector for PnP compatibility
- All ISA onboard interrupts are PnP compliant

Flash Memory
- 512KB for BIOS field upgrade
- 32Kb user serial EEPROM

I/O

I/O controller	SMSC LPC37B787 super I/O
USB Ports	Three (USB 1.1 compliant)
Serial Ports	Two (One RS-232 COM1, COM2 configurable as RS-232/RS-422/485)
Parallel Port	One bi-directional with all IEEE 1284 protocols supported with BIOS selectable IRQs and addressing
Hard Disk	PCI EIDE Ultra DMA/33, support for four IDE drives (in master/slave configuration); PIO Mode 4, Bus Master IDE or synchronous DMA mode transfers up to 33 MB/s
Floppy Disk	Support for two drives (360 KB to 1.44 MB)
Ethernet	Two PCI 10/100Base-TX (Intel 82559ER)
or	Two Gigabit Ethernet (two RJ-45 for copper; two MT-RJ SX duplex transceiver for fiber), available on mezzanine only
CompactFlash	Supports CompactFlash disk module (on secondary channel)
SCSI	Dual Channel Ultra 160 SCSI-3 LVDS/SE based on LSI 53C1010

Video
- PCI 32-bit video controller (C&T 69000) with 2 MB video memory
- Supports CRT with resolution up to 1280 x 1024

Clock / Calendar
- Real-time clock with 256 bytes battery backup CMOS RAM

Connectors
- **Faceplate** USB port (one 4-pin USB connector)
  CRT (female DB-15)
  Fast Ethernet (two RJ-45 with link/activity indicators)
  or Gigabit Ethernet (two RJ-45 for copper; two MT-RJ SX duplex transceiver for fiber) with link/activity indicators
- **Headers**
  10-pin shrouded : Serial ports (2)
  20-pin shrouded : System monitor (1)
  26-pin shrouded : Parallel port (1)
  34-pin shrouded : Floppy (1)
  40-pin shrouded : EIDE (2)
  16-pin shrouded : AT keyboard, speaker, PS/2 mouse, reset, EIDE & SCSI activity LEDs
  10-pin : USB (1)
  20-pin : ATX power supply connector (1)
  3-pin locking : CPU fans (2)
  40-pin module : CompactFlash module (1)
  68-pin High Density DB68: SCSI (2)

BIOS
- Phoenix BIOS in Boot Block Flash with recovery code; save CMOS in Flash option, and boot from LAN capability
- Auto configuration, extended setup
- CC000-E0000 address blocking; PnP tables
- Setup console redirection to serial port (VT100 mode) with CMOS setup access
- All onboard peripherals can be enabled or disabled by software
- Diskless, keyboardless, and videoless operation extensions;
- System, video and LAN BIOS shadowing
- Programmable memory wait states
- DMI & HDD S.M.A.R.T. support
- Advanced Configuration and Power Interface (ACPI 1.0), Intelligent System Monitoring (chassis intrusion and advanced thermal management such as resume, overheat alarm and auto slow down)

Supervisory
- Dual-stage software programmable watchdog timer, time out from 16 msec to 4.5 min
- Silicon Serial ID TAG for unique board identification accessible via software
- Hardware system monitor (voltages, temperature, fan speed), CPU temperature monitor / alarm; board temperature sensor, power failure / low battery detector, and two end-user defined open-drain general purpose inputs

OS Compatibility
- Windows ® NT, Windows ® 2000, Linux, UNIX, and other OSs

Mechanical
- 338 x 122 x 44 mm at CPU / fan (13.32 x 4.80 x 1.73 in. at CPU / fan)
- Conforms to IEEE P996 PC/AT bus, PCI Rev. 2.1, and PICMG 1.0 Rev. 2.0 specifications

Power Requirements
- Supply Voltage Vcc =+3.3V ±5%, +5V ±5%, +12V ±5%
- ICC typ.* +5V: 7.4A
- ICC max.* +3.3V: 7.8A
- ICC max* +5V: 10.9A

* Measured with dual CPU, video, 2 x Gigabit Ethernet, 512MB RSDRAM, keyboard and hard disk

Environmental

	Operating	Storage and Transit
Temperature :	0-50°C / 32-122°F (w/100 LFM airflow)	-40 to +70°C / -40 to 158°F
Humidity:	5% to 95% @ 40°C/104°F non-condensing	5% to 95% @ 40°C/104°F non-condensing
* **Altitude:**	4,000m / 13,123ft	15,000m / 49,212ft
Shock:	15 G, 11ms half sine	30G, 11ms half sine
Vibration:	1G,each axis,10Hz to 500Hz	2G, each axis, 10Hz to 500Hz

Reliability
- MTBF: >105,000hrs @ 30°C/86°F (Telcordia SR-332, Issue 1)
- USB and mouse / keyboard voltage protected by self-resetting fuses
- Unique silicon serial number accessible via software
- 2-year limited warranty

Meets or exceeds:

Safety : UL 1950; CSA C22.2 No 950; EN 60950; IEC950

EMI/EMC: FCC 47 CFR Part 15/CISPR22, Class B; CE Mark to EN55022/EN50082

* Note: Altitude (operating): May require additional cooling above 1800m/5905ft

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