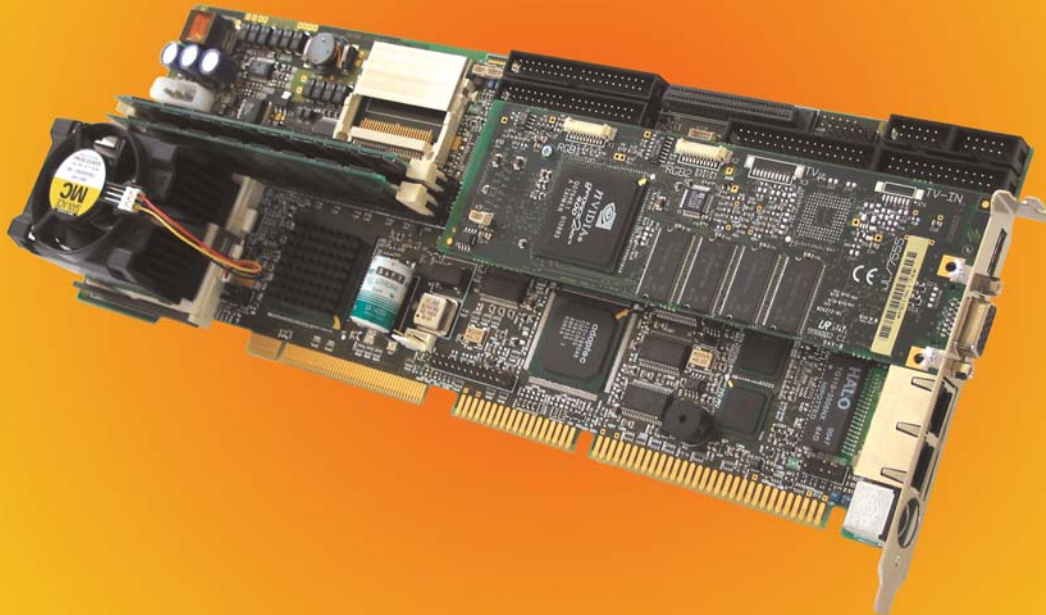


MAT 1019

Pentium® III 1.1GHz •
Dual Ethernet • SCSI



Pentium® III 1.1GHz processor and nVidia® GeForce2

The feature-rich MAT 1019 PICMG® single board computer combines powerful Pentium® III processor power with added GX chipset support. It also offers a nVidia® GeForce2 MX 400 video option, offering TwinView™ dual display architecture, DFP support and video capture. All Socket 370 Pentium® III processors, up to 1.1GHz are supported, as are all Socket 370 Celeron® processors. By specifying the standard BX chipset, the MAT 1019 can support 512MB of SDRAM; the new GX option increases this to 1GB.

Dual PCI Ethernet

There is support for two Intel® 82559 Classic or 82559ER Ethernet controllers. Each can auto-switch between 10Mbit (10BASE-T) and 100Mbit (100BASE-TX) twisted pair. The Ethernet can be provided as two external connections or one internal and one external.

CompactFlash™ and SCSI

Supporting CompactFlash™ Type I and II allows use of IBM® 1Gbyte Microdrive™ or CompactFlash™ cards from 8MB through to 1GB or more.

- Pentium® III Socket 370 up to 1.1GHz
- All Socket 370 Celeron® processors
- Twin 10/100Mbit Intel® Ethernet
(2 external or 1 internal & 1 external)
- Adaptec® or Symbios® LVD SCSI
- CompactFlash™ (Type I and Type II)
- 1GB SDRAM, Intel® GX AGPset
- Video options including nVidia® TwinView™
with DFP support and video capture
- Auxiliary power connection

The CompactFlash™ card is configured as an EIDE device and therefore is transparent to the operating system. This allows any operating system to boot from Flash.

The SCSI controller can be Adaptec® or Symbios® as required by the particular application.



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Technical Specifications

Processor(s)	Socket 370 Pentium® III up to 1.1GHz and Celeron® processors	Serial ports	1 RS232 16C550 compatible 1 RS232/RS485 BIOS setup-selectable 1 infra red port (IrDA 1.0, IrDA 1.1, ASKIR, & CIR)
Memory/RAM	Up to 512M in two 64-bit or 72-bit SDRAM, 1GB if specifying the GX chipset	Keyboard & mouse	Combined into a single AT & PS/2 compatible mini-DIN & header, 500mA self-healing fuse
Pentium® III cache	32KB level 1 & 256KB level 2	Bus speeds	PCI 33MHz, ISA 8.33MHz, Processor: 100MHz for Pentium® III, 66MHz for Celeron®
Celeron® cache	32KB level 1 & 128KB level 2	Battery	3.6V on- or off-board
BIOS	Award®, stored in Flash memory	Speaker	15 Ohm on or off board
EIDE	PCI bus master Ultra33 DMA to 4 ATA devices	Thermometer	Measures processor temperature
CompactFlash™	Type I or Type II	Software watchdog	Programmable via BIOS call
SCSI options	PCI Ultra2 LVD or SE SCSI, Adaptec® or Symbios®	Voltage watchdog	Under-voltage sense
Dual Ethernet	10Mbit (10BASE-T) & 100Mbit (100BASE-TX) auto-select	Dimensions	338 x 122mm (13.3 x 4.8 inches)
AGP video options	nVidia® GeForce2 MX 400, S3® Mobile Savage IX8 8MB SGRAM 2D/3D accelerator, Chips and Technologies™ 69000 and 69030, Silicon Motion®	Environment	0 to 70°C operating -20 to 100°C storage RH 0 to 95% non condensing
Diskette interface	2 devices, each up to 2.88MB	Power required	Contact Microbus for details
USB	2 ports	PSU support	ATX power on/off
Parallel port	AT bi-directional, EPP & ECP	CE Mark	EMC Class B

OEM features

The MAT 988 integrates Microbus OEM features for automatic recovery, best effort boot, software readable serial number and automatic revision control. Self protection mechanisms include self healing fuses and static discharge protection. Thermal management includes monitoring of CPU temperature and fan speed, and automatic CPU clock throttling.

Operating system support

By using industry standard hardware, the MAT 1019 is compatible with most operating systems.

AGP Video

While there is an integrated basic XGA AGP video on board, AGP video modules add 2D/3D acceleration and

flat panel support. Analogue connection, via the standard 15-pin D-type is also available inside the system. Panel interfaces can be direct digital or external DFP (Digital Flat Panel based on PanelLink™). Current video controller options are the nVidia® GeForce2 MX 400 with video output and capture options, Chips and Technologies™ 69000 and 69030, S3® Mobile Savage IX8 and Silicon Motion®.

PCI EIDE & other standard features

The PCI bus master Ultra33 DMA EIDE controller supports four devices, including hard disk, CD-ROM, LS and Zip drives. Two serial, parallel, 2 USB, IrDA, keyboard and mouse ports are supported as standard.



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