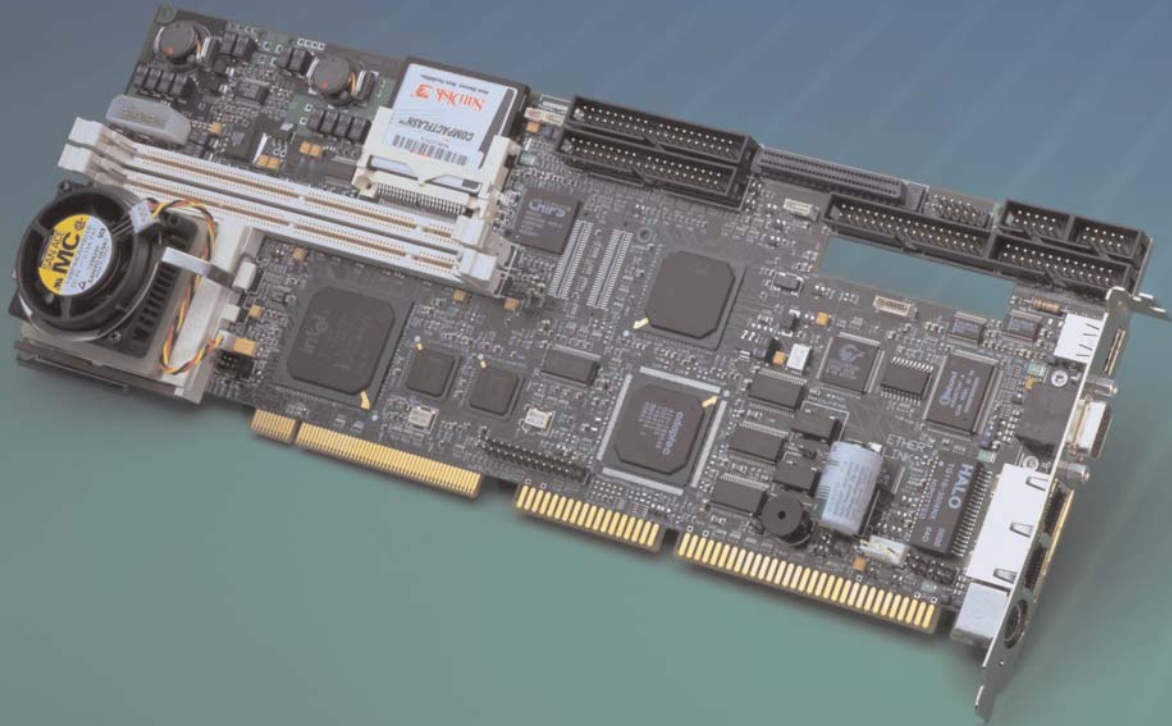


**Pentium® III up to 850MHz,
all Socket 370 Celeron, AGP,
2D/3D accelerator options,
dual Ethernet and SCSI**



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MAT 988 Dual Ethernet Pentium® III

Better by design

- **Pentium® III Socket 370 to 850MHz**
- **All Socket 370 Celeron processors**
- **Two 10/100Mbit Intel® Ethernet**
2 external or 1 internal & 1 external
- **Adaptec® LVD SCSI or SYMBIOS® LVD SCSI**
- **CompactFlash™ (Type I and Type II) socket**
- **512MB SDRAM, Intel® BX AGPset**
- **Video options 2D/3D acceleration and flat panel interfaces**
- **Auxiliary power connection**
- **Single slot option for the 566MHz Celeron**

The MAT 988 PICMG passive back-plane processor card adds dual Intel 82559ER 10/100Mbit Ethernet support to the extensive range of features already supported by the MAT 915. Socket 370 Pentium III processors, up to 850MHz, are supported and all Socket 370 Celeron processors.



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 specified as two external connections or one internal and one external.

Flash (CompactFlash™) and SCSI

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



Designed & made in England

MAT 988 Specifications

Processor(s)	Pentium® III 500 to 850 and all Socket 370 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	8M to 512M in two 64-bit or 72-bit SDRAM	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 8.25MHz synchronous, 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	15Ohm on or off board
EIDE	PCI bus master Ultra33 DMA to 4 ATA devices	Thermometer	Measures processor temperature
Compact Flash	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	S3 Mobile Savage IX8 8MB SGRAM 2D/3D accelerator Chips and Technologies 69000 and 69030	Environment	5 to 70C operating -20 to 100C 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

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.

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 988 will be supported by most PC compatible 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 Chips and Technologies 69000 and 69030, and the S3 Mobile Savage IX8.

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.

To discuss your requirements

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