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Find the *Microbus MAT 915* at our website: *Click HERE*

MAT 915 Pentium® III or Celeron™ processor PICMG™ SBC



- Multimedia AGP video with dual independent display outputs (TV, flat panel or CRT) with video input & capture
- up to 192MB CompactFlash™ disk
- Adaptec® or Symbios® Ultra2 LVD SCSI
- Single ISA or PICMG™ slot
- CNV 984 companion card available to provide complete system functionality in one board set

- Complete a product enquiry to get more details
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- Pentium III Flip-Chip or Celeron processor
- 10/100Mbs Intel® Ethernet
- USB, IrDA, Ultra33 DMA IDE
- up to 512MB SDRAM or EDO memory
- Intel® BX AGPset

The MAT 915 fits many functions in a small space. With a PGA 370 Pentium III Flip-Chip or Celeron processor, S3 Mobile Savage IX8 or Chips 69000/69030 video, Adaptec or Symbios SCSI, Intel 82559 10/100 Mbs Ethernet, an infra-red and two USB ports, two DIMMs or one DIMM and a CompactFlash socket, the board fits in a PICMG passive backplane. It can be configured to fit in one ISA slot.

Multimedia AGP video

This S3 Mobile Savage option drives any two of TV, flat panel & CRT displays at once, with the same or different display content. Options include 8M or 16M video memory and PanelLink™ for digital flat panels. The video input channel supports composite or S-video input as NTSC or PAL, with a Sanyo video decoder. Chips 69000 (2MB SDRAM) or 69030 (4MB SDRAM) accelerator options are also available, providing simultaneous or independent flat panel & CRT displays.
PCI Ethernet & Ultra2 LVD SCSI
The Intel 82559 Ethernet option can auto-switch between 10 Mbs (10BASE-T) and 100Mbs (100BASE TX) twisted pair. Adaptec 7890 or Symbios 53C895 SCSI options each offer Ultra2 SCSI performance and support low voltage differential (LVD) signalling.

CompactFlash socket

This takes standard CompactFlash cards, currently available in capacities up to 192MB, with a built-in ATA/IDE interface. To an operating system the flash disk appears to be a standard IDE drive: any operating system that fits on the disk runs with no extra drivers. In embedded applications, you can use bootable CompactFlash disks under Windows®, Linux™, QNX® and other operating systems. CompactFlash cards are available from Microbus.

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. All MAT 915 cards have a floppy controller, 3 serial ports (2 RS232, 1 IrDA), a parallel port, two USB ports and ports for a keyboard and PS/2 mouse, as well as a PCI EIDE controller.
To protect against under-voltage and the effects of software crashes, you can use the watchdogs. Self-healing fuses and static discharge protection also improve reliability. For example, the serial ports are protected to +/-15KV on the human body model, to +/-8KV for IEC 1000-4-2 contact discharge, and to +/-15KV for IEC 1000-4-2 air-gap discharge.

Single slot PICMG & ISA

With a single DIMM option the card fits in a single ISA slot, provided sufficient power is available for the processor and options fitted. The MAT 915 card fits in any standard PICMG or ISA passive backplane. Microbus supplies a range of suitable backplanes.

MAT 915 Specifications

Processor	Pentium® III processor (FC-PGA) 500 to 750. Celeron™ processor 300 to 566MHz. Faster processors as available.
Memory/RAM	8MB to 512M in two 64-bit or 72-bit SDRAM or EDO DIMMs
Celeron cache	32KB level 1 & 128KB level 2
Pentium III cache	32KB level 1 & 256KB level 2
BIOS	Award, stored in flash memory
EIDE	PCI bus master Ultra33 DMA to 4 ATA devices
CompactFlash	Socket for standard CompactFlash disk cards, 3.3mm deep
SCSI options	PCI Ultra2 LVD SCSI, Adaptec or Symbios
Ethernet	10Mbit (10BASE-T) and 100Mbit (100BASE-TX) auto-select
AGP video options	S3 Mobile Savage IX3 (8MB SGRAM or 16MB SDRAM) multimedia accelerator & video input. Chips 69000 (2MB SDRAM) or 69030 (4MB SDRAM) accelerator.
Diskette interface	2 devices, each up to 2.88MB
Serial ports	2 RS232 16C550 compatible RS422/485 option on one port

	1 infra red port (IrDA 1.0, IrDA 1.1, ASKIR & CIR)
USB	2 ports
Parallel port	AT bi-directional, EPP & ECP
Keyboard	AT & PS/2 compatible mini-DIN & header, 500mA self-healing fuses
Mouse	PS/2 mouse mini-DIN & header, 500mA self-healing fuses
Bus speeds	PCI 33MHz, ISA 8.25MHz synchronous, processor 66MHz
Battery	3.6V on- or off-board
Speaker	15Ohm on- or off-board
Thermometer	Measures processor temperature
Software watchdog	Programmable via BIOS call
Voltage watchdog	Undervoltage sense
Dimensions	338 x 122mm (13.3 x 4.8 inches)
Environment	5 to 70C operating temperature, -20 to 100C storage Relative humidity 0 to 95% non condensing
Power required	+5Volts DC @ 5.3Amps typical to 6.9Amps max. Tested on a 300A Celeron processor card with all options and 64M fitted, in Windows® 98 OS. Contact Microbus for details.
PSU support	ATX power on/off
CE mark	EMC Class B

Please contact Microbus to discuss your requirements.You can

- complete a product enquiry to get more details, and
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