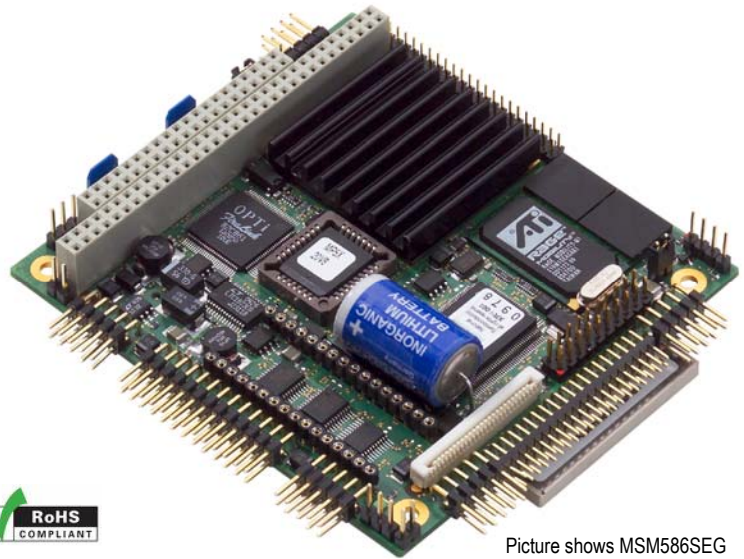




### AMD Processor 133MHz - MSM586SEL / SEG / SEN

#### Feature

- AMD ELAN520 Processor
- 133MHz
- Power Management
- 32-128MB SDRAM in SODIMM Socket
- CRT/LCD on-board
- 100/10Base-T LAN-Ethernet
- E-IDE (1.8/2.5" drives) Hard Disk Interface
- SXGA/LCD (ATI-M1), 8MB internal VRAM
- CRT and LCD/LVDS (18/24Bit) dual independent displays  
SEG ONLY
- 2x USB (1.1) for SEG and SEL ONLY
- COM1, COM2, COM3, COM4, LPT
- RTC with Battery Back-up, Watchdog
- DiskOnChip Socket
- Compact Flash Socket
- EEPROM
- Single 5V Power Supply
- PC/104 (ISA) BUS



Picture shows MSM586SEG



#### Ordering Information

Item Codes	Part#	Description
MSM586SEG	801370	133MHz, 0MB SDRAM, VGA, LAN, USB
MSM586SEL	801380	133MHz, 0MB SDRAM, no VGA, LAN, USB
MSM586SEN	801350	133MHz, 0MB SDRAM, no VGA, LAN, no USB
<b>Options</b>		
MSM-CK	802605	Cable kit, incl. cable for 1.8/2.5" hard drive
Assembly-Kit	710460	4PC/104 Std. Stand-off posts, Hex Nuts, screws
MSEIDECK	100-9637	44Pin to two 40Pin IDE cable
MSFC	801071	Adapter for regular floppy drive to micro-floppy dr
<b>SDRAM options</b>		
SDRAM32-ES	991514	SDRAM 144pin, 32MB, 1.0", -25C/+70C
SDRAM64-ES	991614	SDRAM 144pin, 64MB, 1.0", -25C/+70C
SDRAM128-ES	991724	SDRAM 144pin, 128MB, 1.0", -25C/+70C
SDRAM32-EE	991517	Enh. SDRAM 144pin, 32MB, 1.0", -40C/+85C
SDRAM64-EE	991617	Enh. SDRAM 144pin, 64MB, 1.0", -40C/+85C
SDRAM128-EE	991727	Enh. SDRAM 144pin, 128MB, 1.0", -40C/+85C
CF1-Retainer	989990	Type 1 CF retaining clip for MSM series, installed

\*More options may be available, please contact our Sales Office \*

#### Description

The MICROSPACE PC/104 MSM586SEL/SEG board utilizes the AMD ELAN520 processor and integrates all standard functions of a PC. It includes an on-board CRT/LCD interface (SEG ONLY), which allows connecting to a CRT and/or 3V/5V flat panels via 24Bit TFT LCD interface. Expansions cards (i.e. additional COM ports, Ethernet, etc.) can be added using the PC/104 bus. Operating Systems can be booted from floppy disk, hard disk, or from the flash disk (compact flash or DOC). A non volatile EEPROM allows to save setup values without a battery connected and a programmable watchdog timer is on board. Power consumption is also low and is typically around 0.86A (typ. for SEL) at 5V. No fan is needed (Passive cooling).

Data subject to change without notice



**Feature Technical Specifications**

FEATURES	FUNCTIONS	FUNCTION	REMARKS
Item code	<a href="#">MSM586SEG</a>	<a href="#">MSM586SEL</a>	<a href="#">MSM586SEN</a>
CPU	ELAN520	ELAN520	ELAN520
2nd Level Cache	—	—	—
Performance (MHz)	133	133	133
DRAM Min-Max (MB)	SODIMM 32-128 SDRAM	SODIMM 32-128 SDRAM	SODIMM 32-128 SDRAM
Power Management	—	—	—
DiskOnChip Socket	yes	yes	yes
CompactFlash Socket	yes	yes	yes
Mouse, Keyboard	yes	yes	yes
Floppy Interface	yes	yes	yes
IDE Interface	yes (LB)	yes (LB)	yes (LB)
Onboard Flash	DOC/CF	DOC/CF	DOC/CF
COM1	RS232C (422/485 optional)	RS232C (422/485 optional)	RS232C (422/485 optional)
COM2	RS232C (422/485 optional)	RS232C (422/485 optional)	RS232C (422/485 optional)
COM3	RS232C (422/485 optional)	RS232C (422/485 optional)	RS232C (422/485 optional)
COM4	RS232C (422/485 optional)	RS232C (422/485 optional)	RS232C (422/485 optional)
LPT1	yes	yes	yes
USB	2 (V1.1)	2 (V1.1)	—
LAN	100/10BASE-T	100/10BASE-T	100/10BASE-T
Audio	—	—	—
Video Controller	ATI M1	—	—
Video Datapath	PCI	—	—
Video Memory	8MB	—	—
CRT Video	yes (VGA)	—	—
LCD Interface	24 Bit TFT 3V	—	—
LCD Resolution	1280 x 1024 x 256	—	—
Video Input	—	—	—
EEPROM Support	yes	yes	yes
Watchdog	yes	yes	yes
Power Normal (typ)	5V/-980mA (@64/133)	5V/-860mA (@32/133)	5V/-860mA (@32/133)
Power Suspend	—	—	—
Cooling Type	passive	passive	passive
Operating Temp.	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C
Extended Temp.	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Weight (gr)	100	100	80
MTBF	> 200'000 h	> 200'000 h	> 200'000 h

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