

MICROSPACE PC/104-Plus Pentium® – with SODIMM-SDRAM

Overview



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Type	MSMP5SEN	MSMP5SEG	MSMP3SEN	MSMP3SEG
CPU	smartCoreP5	smartCoreP5	smartCoreP3	smartCoreP3
2nd Level Cache	256kB	256kB	256kB	256kB
Performance (MHz)	166, 266	166, 266	300-700	300-700
DRAM Min-Max (MB)	SODIMM 32-256 MB SDRAM	SODIMM 32-256 MB SDRAM	SODIMM 32-256 MB SDRAM	SODIMM 32-256 MB SDRAM
Onboard Flash (MB)	0	0	0	0
DiskOnChip Socket	-	-	-	-
CompactFlash Socket	optional	optional	optional	optional
PCCard Interface	-	-	-	-
Mouse, Keyboard	✓	✓	✓	✓
BootDrive	FD, HD, CD, USB, LAN	FD, HD, CD, USB, LAN	FD, HD, CD, USB, LAN	FD, HD, CD, USB, LAN
Floppy Interface	✓	✓	✓	✓
IDE Interface	✓, PCI	✓, PCI	✓, PCI	✓, PCI
Onboard IDE-Flash	-	-	-	-
COM1	RS232C	RS232C	RS232C	RS232C
COM2	RS232C	RS232C	RS232C	RS232C
COM3	-	RS232C	-	RS232C
COM4	-	RS232C	-	RS232C
LPT1	✓	✓	✓	✓
IrDA	external	external	external	external
USB V1.1	2	2	2	2
LAN	100/10BASE-T	100/10BASE-T	100/10BASE-T	100/10BASE-T
SCSI	-	-	-	-
Audio	-	-	-	-
Video Controller	-	ATI M1	-	ATI M1
Video Datapath	-	PCI	-	PCI
Video Memory	-	8 MB	-	8 MB
LCD Interface	-	24 Bit TFT 3V	-	24 Bit TFT 3V
LCD Resolution	-	1280 x 1024 x 256	-	1280 x 1024 x 256
Video Input	-	-	-	-
EEPROM Support	✓	✓	-	✓
Watchdog	✓	✓	✓	✓
Power Normal	5V/1,7A (32 MB) (typ.)	5V/2A (32 MB) (typ.)	5V/2,2A (32 MB) (typ.@400MHz)	5V/2,5A (32 MB) (typ.@400MHz)
Power Suspend	5V/0,4A (32 MB) (typ.)	5V/0,4A (32 MB) (typ.)	5V/0,5A (32 MB) (typ.)	5V/0,5A (32 MB) (typ.)
Cooling Type	passive / active	passive / active	active	active
Operating Temp.	-25°C to +60°C	-25°C to +60°C	-25°C to +50°C	-25°C to +50°C
Extended Temp. with 166MHz	-40°C to +70°C	-40°C to +70°C	-	-
Extended Temp. with 266MHz	-40°C to +60°C	-40°C to +60°C	-	-
Extended Temp. with 300MHz	-	-	-40°C to +70°C	-40°C to +70°C
Extended Temp. with 400MHz	-	-	-40°C to +60°C	-40°C to +60°C
Extended Temp. with 700MHz	-	-	-40°C to +50°C	-40°C to +50°C
Weight (gr)	170	170	170	170
MTBF	> 200'000h	> 200'000h	> 200'000h	> 200'000h
Ordering Guide	MSMP5SEN	MSMP5SEG	MSMP3SEN	MSMP3SEG
Status	for new designs	for new designs	for new designs	for new designs



Änderungen vorbehalten / Subject to change!

MICROSPACE PC/104-Plus

Beschreibung

Der MICROSPACE MSMP5SEN/SEG verfügt über alle üblichen Schnittstellen eines Standard-PCs mit einem low-power Pentium® MMX Prozessor. Der Hauptspeicher lässt sich modular erweitern bis max. 256 MB. Das Betriebssystem kann zusätzlich auch via USB ab CD und FD gebootet werden. Die Power-managementfunktionen lassen SUSPEND-to-DISK, Soft-OFF (ATX) und APM zu.

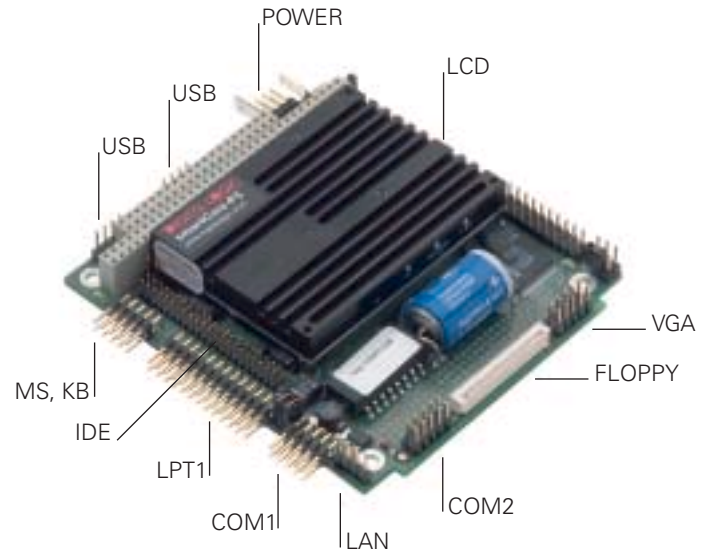
Description

The MICROSPACE PC/104 MSMP5SEN/SEG has all the usual interfaces provided by a standard PC with a low power Pentium® MMX CPU. The DRAM is expandable up to max. 256 MB. The operating system can also be booted from a CD or FD via USB. The power management functions allow Suspend-to-Disk, Soft-Off (ATX) and APM.

Technical Data

Size	PC/104 Board			
CPU	smartCoreP5			
Performance	166, 266MHz			
2L-Cache	256kB			
DRAM	SODIMM 32-256 MB			
Bootable Flash	-			
CompactFlash	(optional)			
PCCard	-			
Keyboard/Mouse	2 x PS/2			
BootDrive	FD, HD, CD, USB-CD, USB-FD, LAN			
Harddisk	44 pin IDE			
Floppy	26 pin FD			
		RS232	RS422	RS485
Serial	COM1	✓	-	-
	COM2	✓	-	-
	COM3	✓	-	opt.
	COM4	✓	-	opt.
Parallel	LPT1			
USB V1.1	✓, 2 channel			
LAN	100/10BASE-T, Intel® 82551ER			
SCSI	-			
Audio	-			
Video	ATI-M1, 8 MB			
	CRT	Standard		
	LCD	TFT/STN		
	Resolution	24 Bit		
	Level	3V		
Video Input	-			
EEPROM	1k			
Watchdog	onboard			
RTC Battery	onboard or external			
Power Management	yes, ATX, APM, ACPI, S2D			
Supply	5V			
Consumption	100mA to 1500mA (typ.)			

MSMP5SEN/SEG – with SODIMM Datasheet



Ordering Information

Article	Part No.	Description
MSMP5SEN	801566	PC/104-Plus without smartCore-P5, 0 MB SODIMM, no Video, LAN, no PC/104-Plus connector assembled
MSMP5SEG	801850	PC/104-Plus without smartCore-P5, 0 MB SODIMM, Video, LAN, no PC/104-Plus connector assembled
smartCoreP5-166	805127	166MHz, Intel® Pentium® MMX
smartCoreP5-266	805126	266MHz, Intel® Pentium® MMX

Accessories	Part No.	Description
MSM-CK	802605	PC/104-Cable-Kit
MSFLOPPY	891001	3.5" Micro-Floppydrive (26 pin)
MSFDCK	802600	Microfloppy cable (26 pin)
MSLAN-CK	802604	Ethernet Cable

Option	Part No.	Description
SDRAM32M	890645	SODIMM SDRAM-Module 32 MB
SDRAM64M	890644	SODIMM SDRAM-Module 64 MB
SDRAM128M	890646	SODIMM SDRAM-Module 128 MB
SDRAM256M	890647	SODIMM SDRAM-Module 256 MB
Option -L+	807006	PC/104-Plus, connector long
Option -P+	807005	PC/104-Plus, connector short
Option -CF	807008	CompactFlashSocket (without Option -L+)