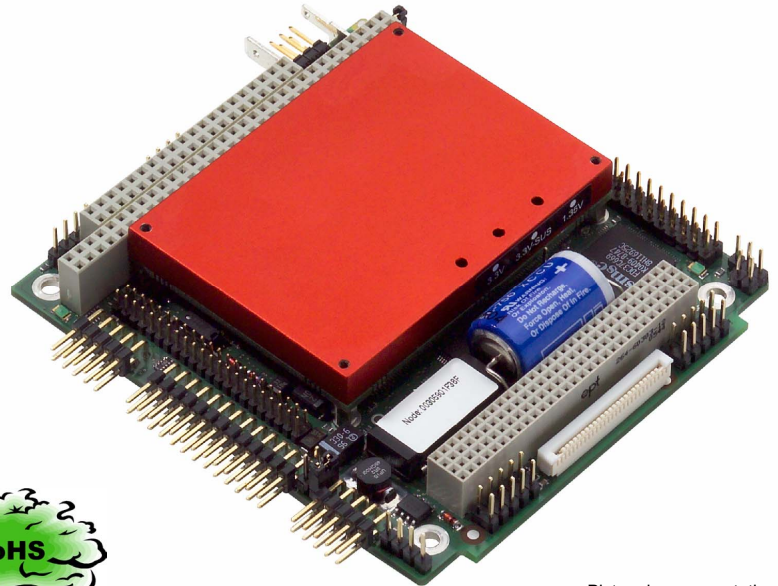


**Pentium CPU 400 / 650MHz  
MSMT3XEG/MSMT3SEG/MSMT3SEN/MSMT3XEN**

**Feature**

- INTEL Tualatin Celeron processor
- 400 / 650MHz
- 256KB - 2nd level Cache
- Power Management
- 64-256SDRAM or soldered 64 MB SDRAM
- CRT/LCD on-board
- 100/10Base-T LAN-Ethernet
- E-IDE (1.8"/2.5" drives) Hard Disk Interface
- 2x USB
- COM1, COM2, COM3, COM4, LPT1
- RTC and Watchdog Timer
- EEPROM
- Single 5V Power Supply
- PC/104 (ISA) BUS
- PC/104+ BUS optional



Picture is representative



**Ordering Information**

Item Codes	Part#	Description
MSMT3XEG	801895	Baseboard with LAN, Video, 64MB soldered SDRAM
MSMT3SEG	801870	Baseboard with LAN, Video, 0MB SDRAM
MSMT3SEN	801872	Baseboard with LAN, no Video, 0MB SDRAM
MSMT3XEN	801972	Baseboard with LAN, no Video, 64MB soldered SDRAM
<b>Options</b>		Choose one smartCore
SmartCoreT3-650C	805145	smartCore (Tualatin) 650MHz
SmartCoreT3-400	805146	smartCore 400MHz (with passive cooler)
SmartCoreT3-400C	805149	smartCore 400MHz (with heat spreader)
-CF	807008	Compact Flash Socket (not with L+)
-L+	807006	PC/104-plus Connector (long, stack-through)
-P+	807005	PC/104-plus Connector (short)
MSMSEG-DVI-CON	801375	Adapter board for DVI-D or TV out with cable (XEG/SEG)
<b>Standard SDRAM</b>		
SDRAM64-PS	990615	SDRAM 144pin, 64MB (-25C to +70C)
SDRAM128-PS	990725	SDRAM 144pin, 128MB (-25C to +70C)
SDRAM256-PS	990823	SDRAM 144pin, 256MB (-25C to +70C)
<b>Extended Temperature Range SDRAM</b>		
SDRAM64-PE	990618	Enh. SDRAM 144pin, 64MB (-40C/+85C)
SDRAM128-PE	990728	Enh. SDRAM 144pin, 128MB (-40C/+85C)
SDRAM256-PE	990826	Enh. SDRAM 144pin, 256MB (-40C/+85C)
<b>Options for Cables and accessories</b>		
Assembly-Kit	710460	4 PC/104 Std. Strand-off posts, Hex nuts, screws

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

**Description**

The MSMT3SEG/XEG/ base board in conjunction with a SmartCoreT3, integrates all standard functions of a PC, including CRT/LCD (XEG/SEG) and USB (1.1) on one PC/104+ board. The SmartCore T3 is based on the Intel PentiumIII Tualatin Processor, at 400 or 650MHz. Additional expansion cards can be added using the PC/104 (ISA) with full 16 Bit support and/or PC/104+ (PCI) connectors with. This CPU can have up to 256MB SDRAM (SEN/SEG) or 64MB soldered (XEG/XEN) onto the board for more rugged applications. The CPU can be booted from USB, IDE, Compact Flash or floppy drive. The CPU can run on most operating systems such as DOS, Windows, Linux versions, as well as OS/2 and real time operating systems. The on board video feature allows for simultaneous operation of the CRT and LCD. ADL offers a service to adapt flat panels to our CPUs. Non Video Boards are available for "headless" applications (XEN/SEN).

Data subject to change without notice

**Feature Technical Specifications**

FEATURES	FUNCTIONS	FUNCTION	FUNCTION	FUNCTION
Item code	<a href="#">MSMT3SEG</a>	<a href="#">MSMT3XEG</a>	<a href="#">MSMT3SEN</a>	<a href="#">MSMT3XEN</a>
CPU	SmartCoreT3	SmartCoreT3	SmartCoreT3	SmartCoreT3
2nd Level Cache	256kB	256kB	256kB	256kB
Performance (MHz)	400 or 650	400 or 650	400 or 650	400 or 650
DRAM Min-Max (MB)	SODIMM 64-256 SDRAM	soldered 64 MB SDRAM	SODIMM 64-256 SDRAM	soldered 64 MB SDRAM
Power Management	—	—	—	—
DiskOnChip Socket	—	—	—	—
CompactFlash Socket	optional	optional	optional	optional
Mouse, Keyboard	yes	yes	yes	yes
Floppy Interface	optional CF	optional CF	optional CF	optional CF
IDE Interface	yes (PCI)	yes (PCI)	yes (PCI)	yes (PCI)
Onboard IDE-Flash	—	—	—	—
COM1	RS232C	RS232C	RS232C	RS232C
COM2	RS232C	RS232C	RS232C	RS232C
COM3	RS232C (422/485 optional)	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)	RS232C (422/485 optional)
LPT1	yes	yes	yes	yes
USB	2 (V1.1)	2 (V1.1)	2 (V1.1)	2 (V1.1)
LAN	100/10BASE-T	100/10BASE-T	100/10BASE-T	100/10BASE-T
Audio	—	—	—	—
Video Controller	ATI M1	ATI M1	—	—
Video Datapath	PCI	PCI	—	—
Video Memory	8 MB	8 MB	—	—
CRT Video	yes (VGA)	yes (VGA)	—	—
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	yes	yes	yes	yes
Watchdog	yes	yes	yes	yes
Power Normal (typ)	5V/~2.6A (@32/400)	5V/~2.6A (@32 MB)	5V/~2.49A (@64/400)	5V/~2.49A (@64/400)
Power Suspend	5V/~0.6A (@32/400)	5V/~0.6A (@32 MB/400)	5V/~0.51A (@32/400)	5V/~0.51A (@32/400)
Cooling Type	passive/active	passive/active	passive/active	passive/active
Operating Temp.	-25°C to +60°C	-25°C to +50°C	-25°C to +50°C	-25°C to +50°C
Extended Temp.	-40°C to +85°C *	-40°C to +85°C *	-40°C to +85°C *	-40°C to +85°C *
Weight (gr)	170	170	170	170
MTBF	> 200'000 h	> 200'000 h	> 200'000 h	> 200'000 h

\* In the final installation, the thermal path must provide sufficient cooling to keep the CPU (T-junction) below the 100°C (max). The BIOS setting of the LM75 may have to be adjusted (standard setting on 85°C). Please contact your sales representative for more information.

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