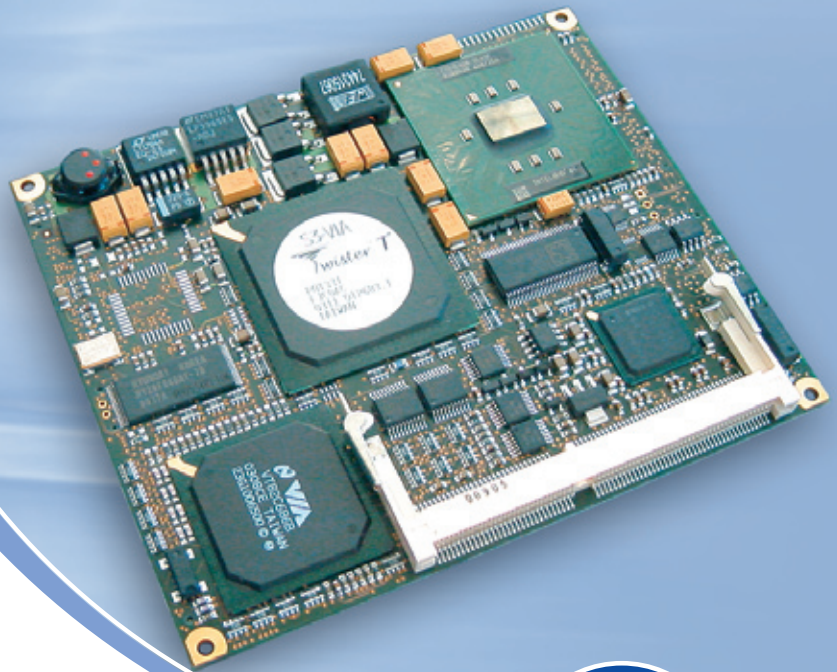


# Product Sheet



## ETX Family

## Pentium III Twister-T Module



ET(e) modules provide the functionality of an Embedded PC on a standardized ETX size module. ETe modules are plugged onto an application-specific base board by high-density SMD connectors.

The combination of a standardized CPU module and a baseboard designed for the specific requirements of the application enables a flexible, configurable system platform with scalable CPU performance.

The design of the MSC ETe-P3T module supports Intel's Tualatin variants of the Intel Pentium® III (ETe-P3T) and Celeron (ETe-CET) processors listed on Intel's embedded roadmap.

For design-in and evaluation of the ETe modules evaluation base boards (ATX or PISA) are available, which supply all interfaces on the standard PC connectors.

Starter Kits for Windows CE® .NET and Linux are available on request.

## Features

- Intel® Pentium® III with 512 kB L2 Cache 800MHz, 933MHz
- Intel® Celeron® with 256 kB L2 Cache 400MHz, 650MHz
- Up to 512MB SDRAM (SO-DIMM)
- VIA Twister-T Chipset PN133T (100/133 MHz Front Side Bus)
- Integrated ProSavage4 AGP 4x 2D/3D Graphics (8, 16 or 32 MB).
- 100Base-Tx Fast Ethernet Interface
- Flat Panel Interface (LVDS)
- PCI and ISA Bus
- Standard PC Interfaces
- AC97 Audio
- System Monitoring, Watchdog
- Fully ETX® 2.8 compliant

Product description	Order numbers
Celeron® 400MHz, LVDS	MSC ETe-CET CPU400-112000
Celeron® 650MHz, LVDS	MSC ETe-CET CPU650-212000
Pentium® III 800MHz, LVDS	MSC ETe-P3T CPU800-311000
Pentium® III 933MHz, LVDS	MSC ETe-P3T CPU933-411000

## Technical Data – ETe-P3T / ETe-CET



<b>CPU</b>	<b>Core Logik, Memory</b>
	Intel Embedded Pentium III Low Voltage 800, 933MHz (512 kB L2 Cache) 133MHz Front Side Bus Intel Celeron Ultra Low Voltage 400, 650 MHz (256 kB L2 Cache) 100MHz Front Side Bus
<b>Chipset</b>	ProSavage PN133T (Twister-T) VT8606 / VT82C686B
<b>Memory</b>	144-Pin SO-DIMM socket, up to 512 MByte 3.3V PC133 SDRAM
<b>Flash</b>	512 KByte Boot Block Flash

### Drives

<b>EIDE</b>	2 EIDE ports Ultra DMA/33/66/100 modes
<b>Floppy</b>	shared with parallel port

### Standard Interfaces

<b>Parallel</b>	1 x PS/2 compatible, ECP/EPP via SETUP configurable shared with parallel port
<b>Serial</b>	2 x TTL
<b>Infrared</b>	IrDA Tx/Rx interface
<b>Keyboard</b>	MFII interface
<b>Mouse</b>	PS/2 compatible
<b>USB</b>	4 x USB V1.1

### Bus Interfaces

<b>PCI</b>	Standard PCI interface
<b>ISA</b>	Standard ISA interface
<b>Serial Bus</b>	I <sup>2</sup> C-Bus, SMBus interfaces

### Flat Panel / CRT Interface

<b>Chipset</b>	integrated ProSavage4 AGP 4x 2D/3DGraphic Controller
<b>Video memory</b>	8, 16 or 32 MB UMA
<b>Displays supported</b>	CRT interface 2 x18 Bit LVDS interface
<b>TV Out (option)</b>	Optional TV encoder (VT1621A)

### LAN interface

<b>Ethernet</b>	INTEL 82551ER 100Base-Tx Fast Ethernet controller
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### Sound Interface

<b>Chipset</b>	AC97 audio codec VT1612A MIC, Line-Out
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<b>Watchdog Timer</b>	<b>Watchdog</b> Creates system reset via SETUP programmable
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<b>Voltage</b>	4 voltages
<b>Temperature</b>	2 temperature sensors
<b>Fan</b>	1 fan (option)

### System Monitoring

### BIOS

<b>Auto-Configuration</b>	Phoenix BIOS 4.0 Release 6.1 Plug & Play (PCI, ISA) PCI Auto Configuration (PCI 2.1) Automatic DRAM configuration
<b>Boot Options</b>	Quick Boot MultiBoot (FD, HD, CD, LAN) Quiet Boot with customer logo Boot without keyboard USB Boot
<b>Security</b>	System and Setup Password Network Server Password Mode Writeprotection for Flash-BIOS Bootsector-Virus-Warning Boot- / Writeprotection for Floppy-Disk-Drive
<b>Power Management</b>	BIOS Power Management Advanced Power Management 1.2
<b>USB</b>	USB Legacy Support (Keyboard, Mouse, Hub)
<b>Video</b>	VGA BIOS with extensions for flat panels
<b>Flash Update</b>	BIOS Update via floppy
<b>SETUP</b>	CMOS SETUP backup in EEPROM

### Power Supply

<b>Power</b>	+5V only
<b>Power Consumption</b>	Celeron 400MHz : 10W Celeron 650MHz : 12W Pentium III 800MHz : 13W Pentium III 933MHz : 14W (Application : DOS prompt)

### Environment

<b>Ambient Temperature</b>	0° .. 60°C (operating) Humidity 0 .. 95% (non condensing)
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### Mechanical

<b>Dimensions</b>	95mm x 114mm x 12mm
<b>Heatspreaders</b>	95mm x 114mm x 2mm with through hole standoffs (3mm) or threaded corner standoffs (2.5mm)

### MSC Head Office

MSC Vertriebs GmbH . Industriestraße 16 . 76297 Stutensee . Tel. +49 7249 910-0 . Fax +49 7249 910-219 . boards@msc-ge.com

### Sales Offices Germany

Aachen Tel. +49 02408 709 - 0 · Berlin Tel. +49 30 720089 - 0 · Hamburg Tel. +49 4106 7764 - 0 · Hannover Tel. +49 511 616847 - 0  
Braunschweig Tel. +49 5341 2999 - 0 · Duesseldorf Tel. +49 211 92593 - 0 · Wiesbaden Tel. +49 611 97320 - 0 · Stuttgart Phone +49 711 78336 - 0  
Munich Tel. +49 89 945532 - 0 · Nuremberg Tel. +49 911 43970 - 0 · Jena Tel. +49 3641 6825 - 0

### Sales Offices Europe

MSC Vertriebs GmbH/Wiener Neudorf Office Tel. +43 2236 205066-0 · MSC Schweiz AG Montreux Office Tel. +41 21 965 3500 · Biel/Bienne Office Tel. +41 32 366 8565 ·  
Rotkreuz Office Tel. +41 41 785 8200 · MSC-Vertriebs-CZ s.r.o. Blansko Office Tel. +420 516 411494-24 · Prague Office Tel. +420 296 580260 · MSC (France) S.A.R.L.  
Tel. +33 16480 5555 · MSC (UK) LTD. Tel. +44 1273 622446 · MSC (Scotland) LTD. Tel. +44 1506 460555 · MSC Budapest Kft. Tel. +36 1250 90-40 · MSC (Malta) LTD.  
Tel. +356 21 484804 · MSC Nederland BV Tel. +31 78 6920-150 · MSC Polska Sp. z o.o. Tel. +48 323 3054-50 · MSC-Mibatron s.r.l. Tel. +40 31 102 3466 · +40 31 230 2530 ·  
MSC Vertriebs GmbH/Istanbul Office Tel. +90 216 411-2333 · MSC Representative Norway Tel. +47 69 889899

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boards@msc-ge.com

www.msc-ge.com/boards