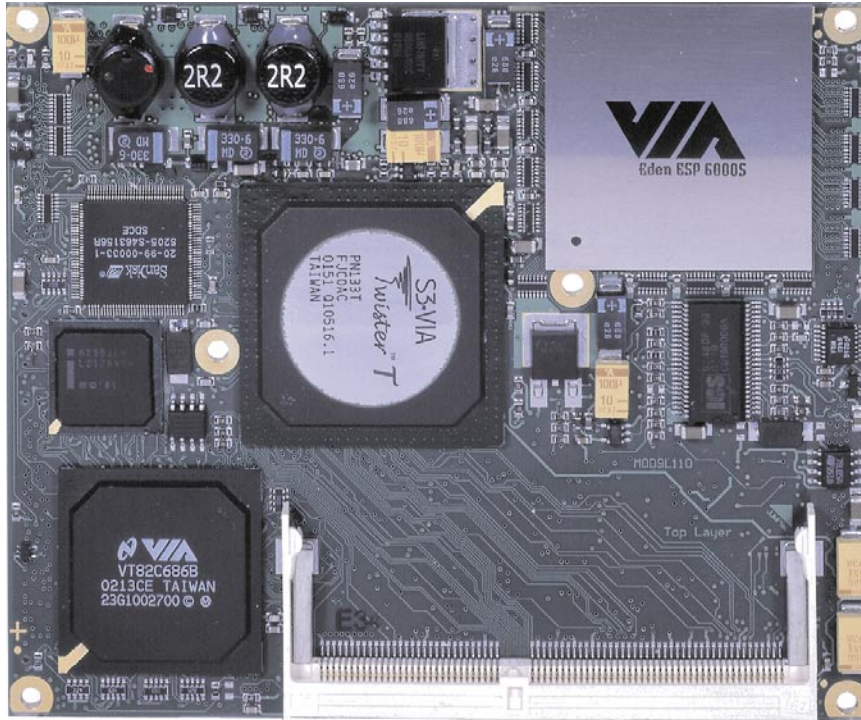# ➤ ETX-VE

original size

➤ **E**mbedded **T**echnology e**X**tended

- ➤ Reduced power consumption
- ➤ Highly integrated
- ➤ Scalable and interchangeable

➤ Product Overview

The new **ETX**-VE-series of the ETX component SBC module is based on the VIA Eden Platform, using the Twister-T™ chipset and ESP4000, ESP7000 and ESP10000 processors. The processors and chipsets are optimized for ultra-low power consumption enabling high-performance boards with passive cooling solutions. Improoved power management is achieved using both ACPI and APM 1.2 allowing for fanless-cooling and extending battery life. With the VIA VT8606/ VT82C686A as the core chip set, the **ETX**-VE-series provides both S3 Savage 4 graphics and VIA enhanced audio. In addition to standard ETX features, the **ETX**-VE supports four USB ports, up to 512 MByte SDRAM, 10/ 100Base-T Ethernet, keyboard/ mouse controllers, real-time clock, and watchdog timer.

ETX modules are like components, plugging in to an application-specific baseboard. The ETX modules supply the core CPU and memory subsystems together with sound, SVGA, Ethernet and standard PC I/O. They connect to the rest of the embedded system through high-density, low profile, surface-mount connectors, which carry both ISA and PCI bus signals as well as dedicated I/O interfaces. The mechanics of the interconnection is such that an ETX/ baseboard combination is virtually the same in height as a one-board solution. ETX modules are scaleable and interchangeable, and they make possible the rapid development of semi-custom solutions for embedded applications.

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➤ Technical Information

Processor	
	VIA Eden Platform Processors
	ESP4000 (400 MHz, ETX-VE4)
	ESP7000 (733 MHz, ETX-VE7)
	ESP10000 (1 GHz , ETX-VE10)
DRAM	
	512 MByte SDRAM
Harddisk	
	Two enhanced IDE ports
Sound	
	SoundBlaster™ compatible, Line-level input/output and Microphone
Video Controller	
	Savage S4 (VT8606) AGP controller LVDS Flatpanel and CRT output, up to 32 MByte UMA Video RAM
Resolutions CRT and LCD	
	VGA 640x480 32 Bit, SVGA 800x600 32 Bit, XGA 1024x786 32 Bit, SXGA 1280x1024 32 Bit, UXGA 1600x1200 32 Bit
LCD Panel Support	
	Dual Channel LVDS 110 MHz
Serial Interfaces	
	2x TTL (16550 compatible), IrDA support

Enhanced Parallel Port	
	shared with Floppy
Floppy Port	
	shared with LPT
Ethernet	
	10/ 100Base-T Intel® 82551ER
USB	
	4x USB 1.1 OHCI ports
Expansions	
	ETX Interface
Dimensions	
	95 x 114 mm (3.7x4.5")
Power Consumption	
	8 to 12 W with 400 MHz, 8 to 15 W with 800 MHz
Temperature (*)	
	operation: 0° to 60°C, storage: 0° to 85°C
Humidity	
	operation: 10% to 90%, storage: 5% to 95% (non condensing)

(*) see manual for details

➤ Ordering Information

Article	Part.-No.	Description
ETX-VE4	18006-0000-40-0	ETX with VIA ESP 4000
ETX-VE7	18006-0000-70-0	ETX with VIA ESP 7000
ETX-VE10	18006-0000-10-0	ETX with VIA ESP 10000
HSP-VE (thread)	18006-0000-99-0	Heatspreader for ETX-VE with threaded holes
HSP-VE (through)	18006-0000-99-1	Heatspreader for ETX-VE with through holes

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