

## ESM-2643

VIA Eden ESP6000 SOM-ETX Module



### FEATURES

- ETX Form Factor
- VIA Eden ESP6000 667 MHz CPU onboard
- Supports CRT and 24-bit TFT panels
- Supports 2 Channel 18-bit LVDS
- 100/10Base Tx fast Ethernet
- Integrated AC-97 2.0 Sound Blaster Compatible Audio

### SPECIFICATIONS

#### General Functions

CPU	VIA Eden ESP6000, 667 MHz, onboard BGA package
BIOS	Award 256K Flash BIOS
Chipset	VIA VT8606/VT82C686B
I/O Chipset	VIA VT82C686B
Memory	Onboard one 144-pin SODIMM socket supports up to 512MB SODIMM
Enhanced IDE	Supports four IDE devices. Supports Ultra DMA/100 mode
FDD interface	Supports two floppy disk drives, 3.5" (720KB, 1.44MB and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes.
Serial port	Supports two 16C550 equivalent serial ports (TTL only).
IR interface	Supports one IrDA port
KB/Mouse connector	Supports PS/2 keyboard and mouse
USB connectors	Supports four independent USB interfaces
Power management	Supports ATX power supply. Supports PC97, LAN wake up and modem ring-in functions. I/O peripheral devices support power saving and doze/standby/suspend modes APM 1.2 compliant
PCI interface	Supports 4 master PCI bus
ISA interface	Supports ISA interface
SIRQ	Supports SIRQ

#### Flat Panel/CRT Interface

Chipset	VIA VT8606, high performance 128-bit GUI, 3D engine
Display memory	8/16/32 MB frame buffer using system memory
Display type	Simultaneously supports CRT and flat panel (TFT/DSTN) displays
Resolution	CRT mode: 1920 x 1440 LCD mode: 1280 x 1024
Interface	4 x AGP, Accelerator Graphics Ports 1.0 Compliant

#### Ethernet Interface

Chipset	Realtek 8139C PCI-Ethernet controller board
Ethernet interface	PCI 100/10 Mbps, IEEE 802.3U compatible
Remote Boot ROM	For Diskless operation

#### LVDS Interface

Scalable Bandwidth	Via VT8606 supports dual channel 18-bit LVDS
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#### Audio Interface

Chipset	VT82C686B
AC97 Codec	VIA VT1612A
Audio Interface	Microphone in, Line in, CD audio in, Line out

#### Mechanical and Environmental

Power supply voltage	+5V(4.75V to 5.25V)
Min. power requirements	+5V @ 2.9A
Operating temperature	0 to 60°C
Board size	95mm x 114mm
Weight	0.1kg