



## HIGH PERFORMANCE VIA EDEN CPU WITH GRAPHIC CONTROLLER, ETHERNET, AUDIO

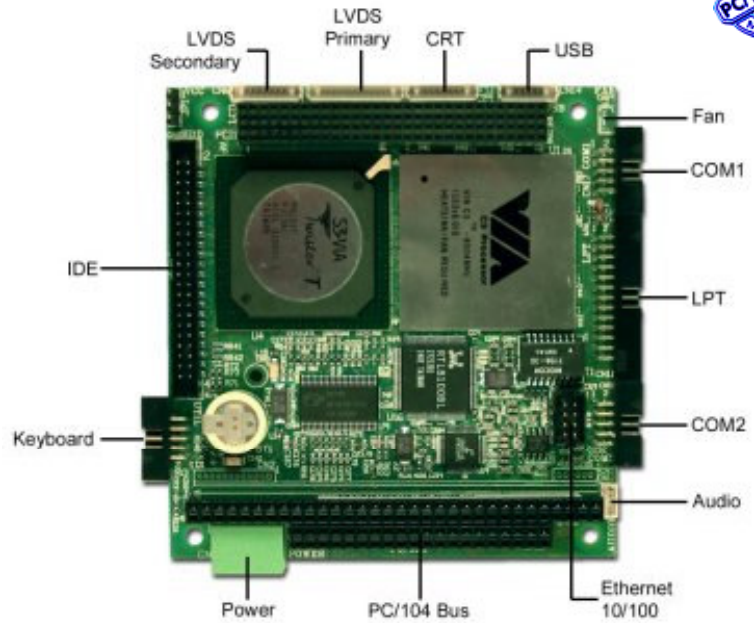
### DESCRIPTION

The M570R module is a new PC/104-Plus CPU module based on the high performance VIA EDEN processors ESP 4000 - 400 MHz, ESP 6000 - 600 MHz. The module uses the VIA ProSavage Twister T (PN133T) chipset with integrated Savage4 2D/3D Video Accelerator and supports 4X AGP VGA/LCD interface and up to 32 MB video memory.

The processor and chipset are optimized for low power consumption, allowing to use the module in fanless applications (400 and 600 MHz).

The module also integrates the VIA enhanced audio, 2 serials, 2 USB ports, 1 parallel, up to 512 MB SDRAM, 10/100BaseT Ethernet, EIDE interface (with the possibility to use IDE Flash Disks), keyboard/mouse controllers, Real Time Clock and Watch Dog Timer.

It is able to communicate with other peripheral boards via ISA-Bus (PC/104) and also via PCI-Bus (PC/104-Plus).



### TECHNICAL SPECIFICATIONS

- **CPU:** VIA Eden ESP 4000 at 400 MHz  
VIA Eden ESP 6000 at 600 MHz
- **Chipset:** VIA ProSavage TwisterT PN133T + VT82C686B chipset
- **DRAM:** up to 512 MB DRAM, one SO-DIMM socket
- **Graphic Controller** Savage4 AGP4X for LCD/CRT  
up to 32 MB UMA Video RAM  
Resolutions CRT:  
up to 1600x1200 with 16.8 mil. colors  
up to 1920x1440 with 64K colors  
Resolutions LCD:  
up to 1280x1024 @ 18 bit and 24 bit
- **Dual channel LVDS interface**
- **Serial Ports:** 1 × RS232C and 1 RS232/422/485
- **USB:** 2 USB ports
- **Parallel:** LPT bidirectional EPP or ECP
- **Ethernet:** Fast Ethernet 10/100baseT
- **EIDE interface** with UltraDMA 66 mode
- **Audio in & out port dual channel**, 250mW per channel
- **PS/2 mouse and keyboard**
- **PC/104 expansion:**  
16-bit standard 64 + 40 pins connector
- **BIOS and ROM-DOS**  
BIOS with advanced managing functions;  
resides in 512 Kbytes Flash
- **Watch Dog Timer**
- **Battery-backed Real Time Clock**
- **Temperature, fan speed and voltage monitoring**
- **Environmental**  
Power supply voltage: +5V (+12V for LCD)  
Power consumption: 5V, typ 1.5 A  
Operating temperature: 0° to 70° C  
Storage temperature: -55° to 85° C  
Relative humidity: 5% to 95%
- **Dimensions** 90 × 96 mm (3.6 × 3.8")

### ORDERING INFORMATION

Part Number	Description
M570R-DAA	PC/104 CPU VIA Eden ESP 4000 - 400 MHz, fanless
M570R-DAB	PC/104-Plus CPU VIA Eden ESP 4000 - 400 MHz, fanless, PC/104-Plus Connector
M570R-BAA	PC/104 CPU VIA Eden ESP 6000 - 600 MHz, fanless
M570R-BAB	PC/104-Plus CPU VIA Eden ESP 6000 - 600 MHz, fanless, PC/104-Plus Connector

### ACCESSORIES

Part Number	Description
MFD-xxxH-HY	IDE Flash Disk; capacities: 32, 64, 128, 256, 512 MB, 1GB, 2GB
CABKIT570	Connection Cables Kit