

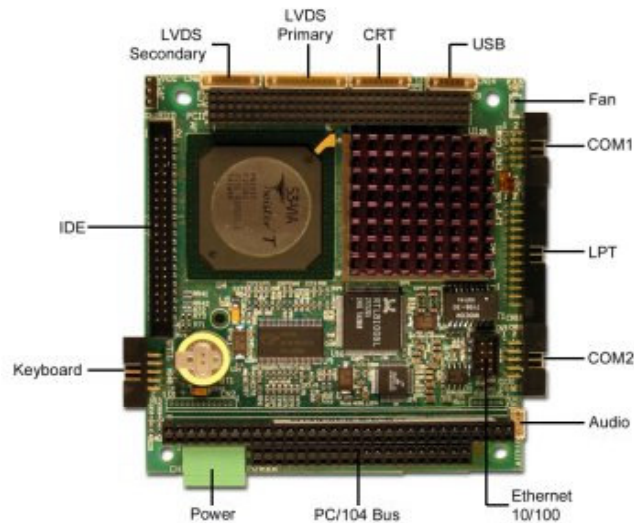
## HIGH PERFORMANCE CELERON CPU WITH GRAPHIC CONTROLLER, ETHERNET, AUDIO

### DESCRIPTION

The M585R module is a new PC/104-Plus CPU module based on the Intel® Celeron™ Ultra Low Power 400 MHz, 650MHz and 266MHz. 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 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:** Intel Celeron Ultra Low Power 650 MHz  
Intel Celeron Ultra Low Power 400 MHz  
Intel Celeron Ultra Low Power 266 MHz
- **Chipset:** VIA ProSavage TwisterT PN133T + VT82C686B chipset  
North Bridge: VT8606  
South Bridge: VT82C686B
- **DRAM:** up to 512 MB DRAM, one SO-DIMM socket
- **CACHE:** 128/256 kByte second level
- **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 port dual channel**, 1W 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  
Power consumption: 15W typical  
Operating temperature: 0° to 60° 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
M585R-DAA	PC/104 CPU Intel Celeron 400 MHz Fanless
M585R-DAB	PC/104-Plus CPU Intel Celeron 400 MHz, PC/104-Plus Connector Fanless
M585R-BAA	PC/104 CPU Intel Celeron 650 MHz
M585R-BAB	PC/104-Plus CPU Intel Celeron 650 MHz, PC/104-Plus Connector
M585R-EAA	PC/104 CPU Intel Celeron 266 MHz Fanless
M585R-EAB	PC/104-Plus CPU Intel Celeron 266 MHz, PC/104-Plus Connector Fanless

### ACCESSORIES

Part Number	Description
MFD-xxxH-HY	IDE Flash Disk; capacities: 32, 64, 128, 256, 512 MB, 1GB, 2GB
CABKIT585	Connection Cables Kit