



Em104-i423

Vortex86SX x86 Embedded SoC PC/104 CPU Module



Features

- Vortex86SX 32-bit x86 Embedded SoC
- Soldered Onboard DDR2 128MB System Memory
- Support Analog RGB/LCD (TFT/DSTN/EL)
- Built-in on Chip 10/100Base-T Ethernet
- Multi-expansion (4 x USB, 4 x Serial Ports, PC/104)
- Soldered Onboard 128MB IDE Flash Disk (Optional)
- **Extended Operating Temp.: -20 ~ 70°C**

System

CPU/Chipset	DMP Vortex86SX 300MHz x86 Embedded SoC
Memory	Soldered onboard 128MB DDR2 SDRAM
BIOS	AMI PnP Flash BIOS
Storage	1 x Ultra ATA, support 2 IDE devices 1 x CompactFlash Type II Socket Soldered onboard 128MB NANDrive
Floppy	1 x Floppy disk drive
Watchdog Timer	1~127 levels reset

I/O

Serial Port	4 x COM ports (COM3, COM4: RS-232) (COM1, COM2: RS-232/485 selectable)
Parallel Port	SPP/EPP/ECP mode
USB Port	4 x USB 2.0 ports
Expansion Bus	PC/104 interface
KB/MS	One 1 x 6-pin wafer connector (PS/2 interface for Keyboard and Mouse)
Digital I/O	16-bit programmable Digital Input/Output

Ethernet

Chipset	1 x 10/100Base-T Ethernet controller
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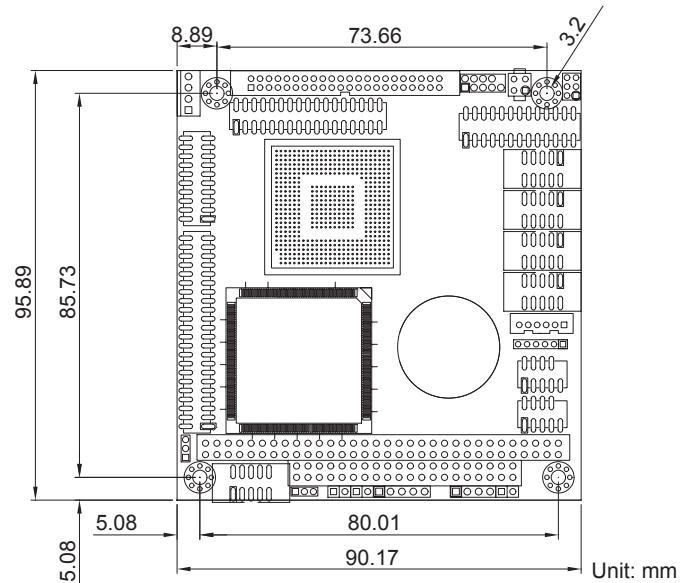
Display

Graphics Chipset	Topro TP6508, onboard 512KB VRAM
Graphics Interface	Analog RGB support 640 x 480 LCD: TTL for TFT/DSTN/EL support up to 800 x 600

Mechanical & Environmental

Power Requirement	Small 4P AT power connector
Power Consumption	0.93A/5V
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	0 ~ 95% (non-condensing)
Dimensions (L x W)	96 x 90 mm (3.8" x 3.5")

Dimensions



Ordering Information

Em104-i423VL	Vortex86SX PC/104 CPU module
Em104-i423DVL/128M	Vortex86SX PC/104 CPU module with 128MB NANDrive
CBK-12-0423-00	Cable kit
	2 x USB cables 4 x COM port cables 1 x FDD cable 1 x IDE cable 1 x LPT cable 1 x Ethernet cable 1 x VGA cable 1 x KB & MS cable

All specifications are subject to change without notice.