Unit: mm

Specifications

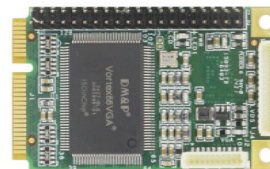|	
Processor	DM&P SoC CPU Vortex86EX- 400MHz Real Time Clock with Lithium Battery Backup
Cache	L1:16K I-Cache, 16K D-Cache,L2 Cache 256KB
BIOS	Coreboot BIOS
System Memory	128MB DDR3 Onboard
Bus	PC/104 standard compliant (16-bit x-ISA)
Watchdog Timer	Software programmable from 30.5μ sec.to 512 sec. x 2 sets (Watchdog 1 fully compatible with M6117D)
LAN	Integrated 10/100Mbps Ethernet
Flash Disk Support	Onboard 7.5MB SPI Flash Disk (Drive A, FreeDOS preinstalled) Onboard eMMC 512MB (Optional) SD card (Optional)
I/O Interface	SATA 7-pin connector x1 RS-232/485 port x1 USB port (Ver2.0) x2 SIM Card slot x1 (Optional) 8-CH 11-bit ADC port x1 Mini PCI-E connector x 1
Connectors	2.0mm 10-pin box header for USB x1 2.0mm 10-pin box header for RS-232 x1 2.0mm 10-pin header for ADC x1 2.0mm 10-pin header for LAN x1 2.54mm 2-pin header for Reset x1 2.54mm 5-pin header for Keyboard/Mouse x1
Power Requirement	Single Voltage +5V@400mA
Weight	63g
Dimensions	90.2mm x 96mm (3.55 x 3.77 inches)
Operating Temperature	-20°C ~ +70 °C -40°C ~ +85 °C (Optional)
Operating System Support	DOS, WinCE6.0, WinCE7.0, Linux

Packing List

- VEX-6253 x1
- Cable
  RS-232 (2.0) x 1
  USB (2.0) x 1
  NET 4x2 (2.0) x 1
  PS/2 Mouse Black x 1

Ordering Information

- **VEX-6253** Vortex86EX PC/104 CPU Module with 128MB DDR3/16-bit x-ISA
- **VEX-6253-5S-S** Vortex86EX PC/104 CPU Module with 128MB DDR3/5S/SD Card slot
- **VEX-6253-3GE** Vortex86EX PC/104 CPU Module with 128MB DDR3/SIM Card slot /Mini PCI-E 3G support/512MB eMMC
- **MINIPCIE-9160** Mini PCI-E VGA Module for VEX CPU Module only

Development Kit

MINIPCIE-9160

- VGA: Maximum resolution up to 1024x768 @ 60Hz
- LVDS/TTL: Maximum resolution up to 1024x768 @ 60Hz
- Single channel 24-bit LVDS