



Unit: mm

Specifications

SOC	DM&P SoC CPU Vortex86EX 400MHz with FPU
Cache	L1: I/D-Cache 16/16KB, L2:128KB
Expansion Bus	PCI-E
BIOS	Coreboot BIOS
System Memory	128MB DDR3 Onboard
LAN	Integrated 10/100Mbps Ethernet
Flash Disk Support	Onboard 7.5MB SPI Flash Disk
I/O Interface	SATA v1.0 port (Secondary IDE Channel) x1 PCIe v1.1 port x1 USB v2.0 port x 2 ADC 11-bit channel x 8
I/O Programmable support to 80 pins (10 ports)	GPIO UART TX/RX UART UART TXDEN x-ISA MCM Printer SD/MMC SPI CAN I ² C USB Device LAN LED Keyboard Mouse WDTOUT CLK OUT MTBF HD Audio
Connectors	1.27mm 64-pin box header for signal x2 1.25mm 6-pin wafer for JTAG x1
Power Requirement	Single Voltage +5V @ 380mA
Dimensions	45 (L) x 28 (W) x 7 (H) mm (With Cover)
Weight	10g
Operating Temperature	-20°C ~ +70°C -40°C ~ +85°C (Optional)

Packing List

- VEX-SOM x1

Ordering Information

- **VEX-SOM** Vortex86EX SOM128pin CPU Module with 128MB DDR3
- **VEX-SOM-X** Vortex86EX SOM128pin CPU Module with 128MB DDR3 and -40°C ~ +85°C support
- **VEX-SOM-DEV** VEX-SOM Development kit
- **MINIPCIE-9160** Mini PCIE VGA Display Board



VEX-SOM without Heatsink