



Unit: mm

## Specifications

|                                     |  |
|-------------------------------------|--|
| <b>SoC</b>                          | DM&P SoC CPU Vortex86SX- 300MHz<br>Real Time Clock with Lithium Battery Backup   |
| <b>Cache</b>                        | L1:16K I-Cache, 16K D-Cache  |
| <b>Bus</b>                          | PC/104 standard compliant  |
| <b>BIOS</b>                         | AMI BIOS   |
| <b>System Memory</b>                | 128/256MB DDR2 Onboard   |
| <b>Watchdog Timer0 &amp; 1 Sets</b> | Software programmable from 30.5μ sec. to 512 sec.<br>x 2 sets (Watchdog 1 fully compatible with M6117D)  |
| <b>VGA</b>                          | XGI Volari Z9s Chipset<br>VGA and TFT/LVDS Flat Panel Interface Support<br>Onboard 32MB VGA Memory, support resolution up to 1280 x 1024, 16M colors   |
| <b>LAN</b>                          | Integrated 10/100Mbps Ethernet<br>Realtek 8100B 10/100Mbps Ethernet Controller<br>Half/Full Duplex Capability  |
| <b>Flash Disk Support</b>           | Onboard 2MB SPI Flash Disk<br>MST1 EmbedDisk Module (16MB and above)   |
| <b>SRAM support</b>                 | 512KB (Optional)   |
| <b>I/O Interface</b>                | Enhanced IDE port x1<br>RS-232 port x3<br>RS-232/422/485 port x1<br>USB port (Ver2.0) x2<br>Parallel port x1<br>16-bit GPIO port x1<br>10/100Mbps Ethernet port x3   |
| <b>Connectors</b>                   | 2.0mm 44-pin box header for IDE x1<br>2.0mm 44-pin box header for LCD x1<br>2.0mm 10pin box header for VGA x1<br>2.0mm 10pin box header for USB x1<br>2.0mm 26-pin box header for Printer x1<br>2.0mm 20-pin box header for 16-bit GPIO x1<br>2.0mm 10-pin box header for RS-232 x4<br>2.0mm 8-pin header for Ethernet x3<br>2.5mm 5-pin box header for Keyboard x1<br>2.5mm 5-pin header for Mouse x1<br>2.54mm 4-pin header for -5V, -12V, +12V, GND, DC-in x1<br>2.54mm 3-pin header for RS-485 x1<br>2.54mm 2-pin header for Reset x1<br>2.54mm 7-pin header for Redundancy Signal x1 (Optional)<br>2.54mm 2-pin header for System-Fail-SW x1 (Optional)<br>1.25mm 6-pin wafer for JTAG x1 |

|                              |   |
|------------------------------|---|
| <b>Power Requirement</b>     | Single Voltage +5V @ 680mA                |
| <b>Weight</b>                | 90g                                       |
| <b>Board Size</b>            | 90 x 96mm (3.54 x 3.77 inches)            |
| <b>Operating Temperature</b> | -20°C ~ +70°C<br>-40°C ~ +85°C (Optional) |

## Packing List

- VSX-6157-V2 x1
- CD for User's Manual & Driver x1
- Cable
  - HDD 44P (2.0) x1
  - PRINT (2.0) x1
  - VGA (2.0) x1
  - RS-232 (2.0) x4
  - NET 4x2 (2.0) x3
  - GPIO (2.0) x1
  - PS2 KB White x1
  - PS2 Mouse Black x1
- Screw Kit x1

## Ordering information

- **VSX-6157-V2** Vortex86SX PC/104 CPU Module with 128MB DDR2