



Unit: mm

## Specifications

<b>SoC</b>	DM&P SoC CPU Vortex86DX- 800MHz Real Time Clock with Lithium Battery Backup
<b>Cache</b>	L1:16K I-Cache, 16K D-Cache L2 Cache 128KB
<b>BIOS</b>	AMI BIOS
<b>System Memory</b>	256/512MB DDR2 Onboard
<b>Watchdog Timer</b>	Software programmable from 30.5 $\mu$ sec. to 512 sec. x 2 sets (Watchdog 1 fully compatible with M6117D)
<b>VGA</b>	XGI Volari Z9s Chipset VGA and TFT Flat Panel Interface Support Onboard 32MB VGA Memory, support resolution up to 1280x1024,16M colors
<b>LAN</b>	Integrated 10/100Mbps Ethernet
<b>Audio</b>	CM119 USB Audio controller
<b>Flash Disk Support</b>	Onboard 4MB SPI Flash Disk MSTI EmbedDisk Module (16MB and above) 44-pin IDE to Micro SD (Optional)
<b>PWM</b>	24~32 Channels
<b>I/O Interface</b>	Enhanced IDE port (UltraDMA-100/66/33) x1 RS-232 port x3 RS-232/422/485 port x1 USB port (Ver2.0) x4 16-bit GPIO port x2 10/100Mbps Ethernet port x1
<b>Connectors</b>	2.0mm 44-pin box header for IDE x1 2.0mm 20-pin box header for 16-bit GPIO x2 2.0mm 10-pin box header for RS-232 x4 2.0mm 10-pin box header for USB x2 2.0mm 10-pin box header for VGA x1 2.0mm 44-pin box header for LCD x1 2.54mm 5-pin box header for Keyboard x1 2.54mm 5-pin header for Mouse x1 2.54mm 3-pin header for RS-485 x1 1.25mm 4-pin wafer for Line-out/MIC-in x2 1.25mm 6-pin wafer for JTAG x1 External RJ-45 connector for Ethernet x1

<b>Power Requirement</b>	Single Voltage +5V @ 740mA
<b>Weight</b>	63g
<b>Board Size</b>	100 x 66mm (3.94 x 2.6 inches)
<b>Operating Temperature</b>	-20°C ~ +70°C -40°C ~ +85°C (Optional)

## Packing List

- VDX-6318RD x1
- CD for User's Manual & Driver x1
- Cable
  - HDD 44P (2.0) x1
  - VGA (2.0) x1
  - RS-232 (2.0) x4
  - USB (2.0) x2
  - GPIO (2.0) x2
  - Audio Line x2
  - PS2 KB White x1
  - PS2 Mouse Black x1

## Ordering information

- **VDX-6318RD** Vortex86DX Tiny CPU Module with 256MB DDR2
- **VDX-6318RD-512** Vortex86DX Tiny CPU Module with 512MB DDR2