



Unit: mm

Specifications

SoC	DM&P SoC CPU Vortex86DX- 800MHz Real Time Clock with Lithium Battery Backup
Cache	L1:16K I-Cache, 16K D-Cache L2 Cache 128KB
BIOS	AMI BIOS
System Memory	256/512MB DDR2 Onboard
Watchdog Timer	Software programmable from 30.5 μ sec.to 512 sec. x 2 sets (Watchdog 1 fully compatible with M6117D)
VGA	XGI Volari Z9s Chipset VGA and TFT Flat Panel Interface Support Onboard 32MB VGA Memory, support resolution up to 1280x1024,16M colors
LAN	Integrated 10/100Mbps Ethernet
Audio	CM119 USB Audio controller
Flash Disk Support	Onboard 4MB SPI Flash Disk MSTI EmbedDisk Module (16MB and above) 44-pin IDE to Micro SD (Optional)
PWM	24~32 Channels
I/O Interface	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
Connectors	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

Power Requirement	Single Voltage +5V @ 740mA
Weight	63g
Board Size	100 x 66mm (3.94 x 2.6 inches)
Operating Temperature	-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