



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
Bus	PC/104 standard compliant PCI-104 (Optional)
BIOS	AMI BIOS
System Memory	256/512MB DDR2 Onboard
Watchdog Timer	Software programmable from 30.5μ 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 1280 x 1024, 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	16-24 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) x2 Parallel port x1 16-bit GPIO port x1 10/100Mbps Ethernet port x1
Connectors	2.0mm 44-pin box header for IDE x1 2.0mm 44-pin box header for LCD x1 2.0mm 10-pin box header for VGA x1 2.0mm 10-pin box header for USB x1 2.0mm 26-pin box header for Printer x1 2.0mm 20-pin box header for 16-bit GPIO x1 2.0mm 10-pin box header for RS-232 x4 2.0mm 8-pin header for Ethernet x1 2.54mm 5-pin box header for Keyboard x1 2.54mm 5-pin header for Mouse x1 2.54mm 4-pin header for -5V, -12V +12V, GND x1 2.54mm 3-pin header for RS-485 x1 2.54mm 2-pin header for Reset x1 2.54mm 7-pin header for Redundancy Signal x1 (Optional) 2.54mm 2-pin header for System-Fail-SW x1 (Optional) 1.25mm 6-pin wafer for JTAG x1 1.25mm 4-pin wafer for Line-out/MIC-in x2
Power Requirement	Single Voltage +5V @ 740mA
Weight	90g

Board Size	90 x 96mm (3.54 x 3.77 inches)
Operating Temperature	-20°C ~ +70°C -40°C ~ +85°C (Optional)

Packing List

- VDX-6354RD x1
- CD for User's Manual & Driver (Optional)
- Cable
 - HDD 44P (2.0) x1
 - PRINT (2.0) x1
 - VGA (2.0) x1
 - RS-232 (2.0) x4
 - USB (2.0) x1
 - NET 4 x 2 (2.0) x1
 - GPIO (2.0) x1
 - Audio Line x2
 - PS2 KB White x1
 - PS2 Mouse Black x1
- Screw Kit x1

Ordering information

- **VDX-6354RD** Vortex86DX PC/104 CPU Module with 256MB DDR2
- **VDX-6354RD-PLUS** Vortex86DX PC/104+ CPU Module with 256MB DDR2
- **VDX-6354RD-512** Vortex86DX PC/104 CPU Module with 512MB DDR2

1

μProcessor Module

2

Tiny Module

3

PC/104 CPU module

4

Hall-Size CPU module

5

3.5" CPU module

6

Peripheral Module

7

Display Product Series

8

Accessories & Technical Information