



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 0 & 1 Sets	Software programmable from 30.5μ sec.to 512 sec. x 2 sets (Watchdog 1 fully compatible with M6117D)
LAN	Integrated 10/100Mbps Ethernet
Flash Disk Support	Compact Flash Type I/II Onboard 4MB SPI Flash Disk
PWM	24 Channels
I/O Interface	RS-232 port x4 (TX/RX x3) USB port (Ver2.0) x3 10/100Mbps Ethernet port x1
Connectors	1.25mm 3-pin wafer for RS-232 x3 1.25mm 5-pin wafer for USB x1 1.25mm 4-pin wafer for Keyboard x1 1.25mm 6-pin wafer for JTAG x1 Type I/II Compact Flash slot x1
Power Requirement	Single Voltage +5V @ 380mA
Weight	28g
Board Size	90 x 46mm (3.54 x 1.81 inches)
Operating Temperature	-20°C ~ +70°C -40°C ~ +85°C (Optional)

Packing List

- VDX-6300RD x1

Ordering Information

- **VDX-6300RD** Vortex86DX DIP 68pin CPU Module with 256MB DDR2
- **VDX-6300RD-512** Vortex86DX DIP 68pin CPU Module with 512MB DDR2
- **VSX-6100-EVB** Vortex86SX DIP 48/68pin CPU Module Development Board

2.0mm 68-Pin Signal Assignment for VDX-6300RD

PIN#	Signal Name	PIN#	Signal Name
1	GND	35	GND
2	Reset	36	TXDEN2
3	GP00 /PWM0	37	CTS2\
4	GP01 /PWM1	38	DSR2\
5	GP02 /PWM2	39	DTR2\
6	GP03 /PWM3	40	RXD2\
7	GP04 /PWM4	41	RI2\
8	GP05 /PWM5	42	RTS2\
9	GP06 /PWM6	43	TXD2\
10	GP07 /PWM7	44	DCD2\
11	SPICS / GP30	45	GND
12	SPICLIK / GP31	46	GP23 /PWM19
13	SPIDO / GP32	47	GP24 /PWM20
14	SPIDI / GP33	48	GP25 /PWM21
15	GP34	49	GP26 /PWM22
16	GP35	50	GP27 /PWM23
17	GP36	51	CTS1\
18	GP37	52	DSR1\
19	SPEAKER	53	DTR1\
20	GP20 /PWM16	54	RXD1\
21	GP21 /PWM17	55	RI1\
22	GP22 /PWM18	56	RTS1\
23	VBATT	57	TXD1\
24	VCC	58	DCD1\
25	GP10 /PWM8	59	GND
26	GP11 /PWM9	60	LUSBD2-
27	GP12 /PWM10	61	LUSBD2+
28	GP13 /PWM11	62	LUSBD3-
29	GP14 /PWM12	63	LUSBD3+
30	GP15 /PWM13	64	LAN-RX-
31	GP16 /PWM14	65	LAN-RX+
32	GP17 /PWM15	66	LAN-TX-
33	SYSCLK	67	LAN-TX+
34	IRQ6	68	VCC