



Unit: mm

Specifications

SoC	DM&P SoC CPU Vortex86SX- 300MHz Real Time Clock with Lithium Battery Backup
Cache	L1:16K I-Cache, 16K D-Cache
BIOS	AMI BIOS
System Memory	128/256MB 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 2MB SPI Flash Disk
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 @ 340mA
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

- VSX-6100-V2 x1

Ordering information

- VSX-6100-V2** Vortex86SX DIP 68pin CPU Module with 128MB DDR2
- VSX-6100-EVB** Vortex86SX DIP 48/68pin CPU Module Development Board

2.0mm 68-Pin Signal Assignment for VSX-6100-V2

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

- 1 **µProcessor Module**
- 2 **Mity/Tiny CPU Module**
- 3 **PC/104 CPU Module**
- 4 **Half-Size CPU Module**
- 5 **3.5" CPU Module**
- 6 **Peripheral Module**
- 7 **Display Product Series**
- 8 **Accessories & Technical Information**