

VP-23W1/VP-25W1

Windows CE .NET 5.0 Inside



VP-23W1/VP-25W1

Highlight Information

- PXA270 CPU (32-bit & 520 MHz)
- 128 MB SDRAM & 96 MB Flash
- IP65 Compliant Front Panel
- 3.5"/5.7" TFT LCD
- Rubber Keypad
- Audio with Microphone-In and Earphone-Out
- 3 Slots for High Profile I/O Modules
- One 10/100M Ethernet Port
- 2 Serial Ports (RS-232, RS-485)
- Operating Temperature: -20 ~ +70 °C



ViewPAC-2000 Series Programmable Automation Controller VP-23W1/VP25W1

Introduction

ViewPAC combines WinPAC, color graphic display and keypad in one unit. It equips a PXA270 CPU (520 MHz) running Windows CE .NET 5.0 operating system, variant connectivity (USB, Ethernet, RS-232/485), 3 I/O slots, 3.5"/5.7" TFT LCD and a rubber keypad.

Its operating system, Windows CE .NET 5.0, has many advantages, includes hard real-time capability, small core size, fast boot speed, interrupt handling at a deeper level and achievable deterministic control. Running Windows CE .NET 5.0 in the ViewPAC gives it the ability to run PC-based control software such as Visual Basic .NET, Visual C#, Embedded Visual C++, SCADA software, Soft PLC ...etc.

Compared with traditional IPC + PLC solutions, ViewPAC reduces overall system cost, space and gives you all the best features of IPC and PLC.



Features

Software

- Windows CE .NET 5.0 Inside
- Easy Remote Maintenance Via Ethernet
 - FTP Server
 - VCEP Software
- Built-in OPC Server: Quicker
 - An OPC Server for SCADA Software
 - Integrates Local/Remote I/O Modules Via RS-232/485 or Ethernet
 - Provides Library for eVC, C# or VB .NET
 - Supports Modbus and DCON Protocols
- Development Software
 - Visual Studio .NET 2003/2005/2008 and eVC
 - SDK/Demo Programs for C#, VB .NET & eVC

Hardware

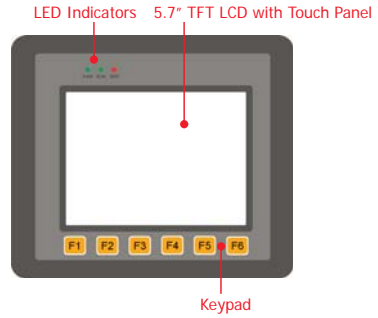
- PXA270 CPU (32-bit & 520 MHz)
- IP65 Compliant Front Panel
- 3.5"/5.7" TFT LCD (5.7" LCD is with Touch Panel)
- Rubber Keypad with 24/6 Keys
- Audio with Microphone-In and Earphone-Out
- 3 Slots for High Profile I/O Modules
- 64-bit Hardware Serial Number for Software Protection
- Built-in Flash Disk (31 MB)
- Dual Battery Backup SRAM (512 KB)
- Rich I/O Expansion Ability
 - Ethernet
 - RS-232/422/485
 - FRnet
 - CAN bus
- Operating Temperature: -20 ~ +70 °C

• Specifications

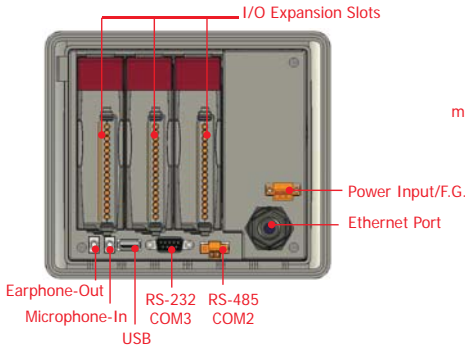
Models	VP-23W1	VP-25W1
System Software		
OS	Windows CE .NET 5.0	
.Net Compact Framework	2.0	
Embedded Service	FTP Server, Web Server (supports VB script, JAVA script), Embedded SQL Server	
SDK Provided	DII for eVC, DII for Visual Studio.Net 2003/2005/2008	
CPU Module		
CPU	PXA270 or compatible (32-bit and 520 MHz)	
SDRAM	128 MB	
Flash	96 MB (64 MB for OS image, 31 MB for built-in Flash disk, 1 MB for registry)	
Expansion Flash Memory	microSD socket with one 1 GB microSD card (support up to 16 GB microSDHC card)	
Dual Battery Backup SRAM	512 KB (for 5 years data retention)	
EEPROM	16 KB (data retention: 40 years; 1,000,000 erase/write cycles)	
RTC (Real Time Clock)	Provide seconds, minutes, hours, day of week/month; month and year, valid from 1980 to 2079	
64-bit Hardware Serial Number	Yes	
Dual Watchdog Timers	Yes (0.8 second)	
Rotary Switch	Yes (0 – 9)	
Communication Interface		
Ethernet	RJ-45 x 1, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)	
USB 1.1 (host)	1	
COM0	Internal communication with the high profile I-87K series modules in slots	
COM2	RS-485 (D2+, D2-; self-tuner ASIC inside); 2500 V _{DC} Isolated	
COM3	RS-232 (Rx/D, Tx/D, CTS, RTS, DSR, DTR, CD, RI and GND); Non-isolated	
MMI (Man Machine Interface)		
LCD	3.5" TFT (Resolution 320 x 240)	5.7" TFT (Resolution 640 x 480)
Touch Panel	-	Yes
Rubber Keypad	24 Keys	6 Keys
Audio	Microphone-In and Earphone-Out	
LED Indicators	3 Dual-Color LEDs (PWR, RUN, LAN1, L1, L2, L3; L1 – L3 for User Programmable)	
I/O Expansion Slots		
Slot Number	3 (For High Profile I-8K and I-87K Modules only)	
Hot Swap * Will be available	Yes (For High Profile I-87K Modules Only)	
Mechanical		
Dimensions (W x L x H)	182 mm x 158 mm x 125 mm	
Installation	Panel Mounting	
Ingress Protection	Front panel: IP65	
Environmental		
Operating Temperature	-20 ~ +70 °C	
Storage Temperature	-30 ~ +80 °C	
Ambient Relative Humidity	5 ~ 90 % RH, non-condensing	
Power		
Input Range	+10 ~ +30 V _{DC}	
Isolation	1 kV	
Capacity	2.5 A, 5 V supply to I/O expansion slots	
Consumption	7.2 W (0.3 A @ 24 V _{DC})	

● Appearance

Front View



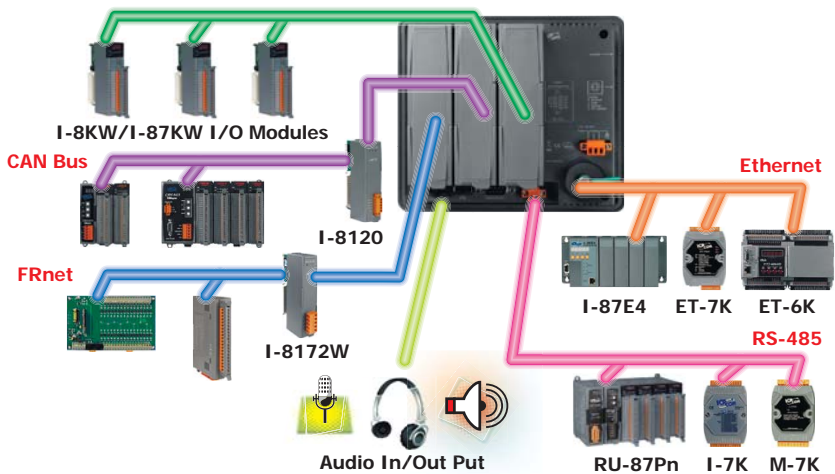
Rear View



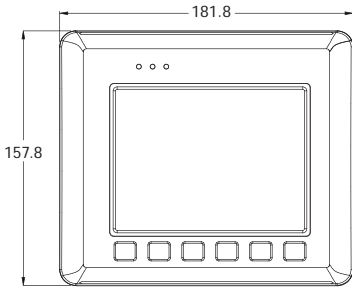
Side View



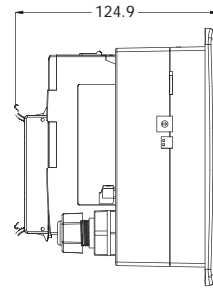
● Rich I/O Expansion Ability



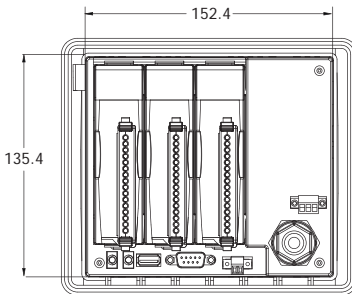
● Dimensions (Unit: mm)



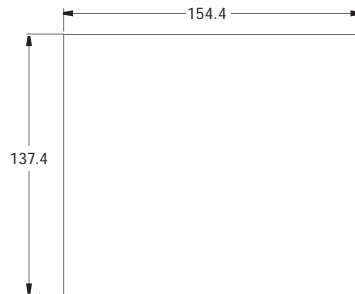
Front View



Side View



Rear View



CUTOUT

● Ordering Information

VP-23W1-EN CR	Standard ViewPAC with 3.5" LCD (English Version of OS) (RoHS)
VP-25W1-EN CR	Standard ViewPAC with 5.7" LCD (English Version of OS) (RoHS)
VP-23W1-TC CR	Standard ViewPAC with 3.5" LCD (Traditional Chinese of OS) (RoHS)
VP-25W1-TC CR	Standard ViewPAC with 5.7" LCD (Traditional Chinese of OS) (RoHS)
VP-23W1-SC CR	Standard ViewPAC with 3.5" LCD (Simplified Chinese of OS) (RoHS)
VP-25W1-SC CR	Standard ViewPAC with 5.7" LCD (Simplified Chinese of OS) (RoHS)

● Accessories

DP-660	24 V _{DC} /2.5 A, 60 W and 5 V _{DC} /0.5 A, 2.5 W Power Supply with DIN-Rail Mounting
MDR-20-24	24 V _{DC} /1.0 A, 24 W Power Supply with DIN-Rail Mounting
MDR-60-24	24 V _{DC} /2.5 A, 60 W Power Supply with DIN-Rail Mounting