

# VP-23W1/VP-25W1

Standard ViewPAC (Window CE.NET 5.0 Inside)



Model: VP-23W1



Model: VP-25W1

## Introduction

ViewPAC combines WinPAC, graphic display and keypad in one unit. It equips a PXA270 CPU (520MHz) running Windows CE.NET 5.0 operating system, variant connectivities (USB, Ethernet, RS-232/485), 3 slots to expand I/O modules, 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, achievable deterministic control and low cost. 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 to traditional IPC + PLC solutions, ViewPAC reduces overall system cost, space and gives you all the best features of IPC and PLC.

## Software features

- 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 features

- PXA 270 CPU (32-bit & 520 MHz)
- IP44 Compliant Front Panel
- 3.5"/5.7" TFT LCD (5.7" LCD is with Touch Panel)
- Rubber Keypad with 24/6 Keys
- Audio with MIC-In and Line-Out
- 64-bit Hardware Serial Number for Software Protection
- 3 Slots for High Profile I/O Modules
- Rich I/O Expansion Ability
  - Ethernet
  - RS-232/422/485
  - FRnet
  - CAN bus
- Dual Battery Backup SRAM (512 KB)
- One Ethernet Port
- 2 Serial Ports (RS-232, RS-485)
- Operating Temperature: -20 ~ +70 °C

## Specification

Model	VP-23W1	VP-25W1
<b>System Software</b>		
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	Dll for eVC, Dll for Visual Studio.Net 2003/2005/2008	
<b>CPU Module</b>		
CPU	PXA270 or compatible (32-bit and 520 MHz)	
SRAM	128 MB	

Dual Battery Backup SRAM	512 KB (for 5 years data retain)	
Flash	96 MB (64 MB for OS image, 31 MB for built-in Flash disk, 1 MB for registry)	
EEPROM	16 KB	
	Data Retention: 40 years; 1,000,000 erase/write cycles	
Expansion Flash Memory	microSD socket with one 1 GB microSD card (support up to 16 GB microSDHC card)	
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 Timer	Yes	
<b>Communication Interface</b>		
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 I-87K modules in slots	
COM2	RS-485 (D2+, D2-); self-tuner ASIC inside; 2500VDC Isolated. 2500 VDC	
COM3	RS-232 (Rx/D, Tx/D, CTS, RTS, DSR, DTR, CD, RI and GND); Non-isolated	
<b>MMI (Man Machine Interface)</b>		
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)	
<b>I/O expansion slots</b>		
Slot Number	3 (For High Profile I-8K and I-87K Modules only)	
Hot Swap * Will be available	For High Profile I-87K Modules Only	
<b>Mechanical</b>		
Dimensions (W x L x H)	182 mm x 158 mm x 125 mm	
Ingress Protection	Front panel: IP65	
<b>Environmental</b>		
Operating Temperature	-20 ~ +70°C	
Storage Temperature	-30 ~ +80°C	
Ambient Relative Humidity	5 ~ 90% RH, non-condensing	
<b>Power</b>		
Input Range	+10V ~ +30V	
Isolation	1KV	
Capacity	2.5A, 5V supply to I/O expansion slots	
Consumption	7.2 W (0.3 A @ 24 VDC)	

## Ordering information

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