VP-23A1 **VP-25A1**

Highlight Information

- 3 I/O Slots
- Android 1.6 Inside
- PXA270 CPU (32-bit & 520 MHz)
- 128 MB SDRAM & 96 MB Flash
- IP65 Compliant Front Panel
- 3.5"/5.7" TFT LCD and Rubber Keypad
- Audio with Microphone-In and Earphone-Out
- Operating Temperature: -20 ~ +70°C

Introduction

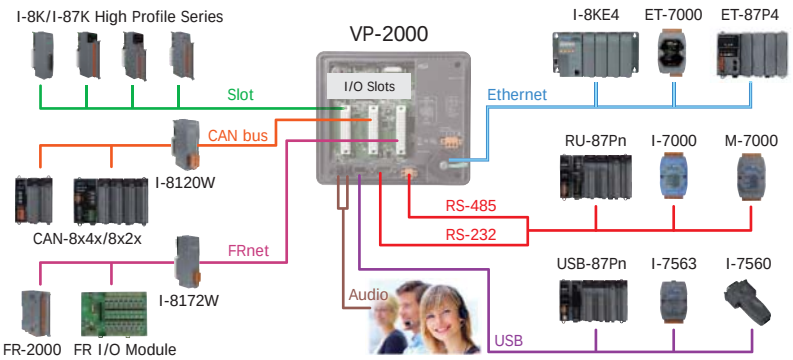
The ViewPAC combines LinPAC, a color graphic display and a keypad in one unit. It is equipped with a PXA270 CPU running the Android 1.6 operating system, multiple communication interfaces (USB, Ethernet, RS-232/485 and audio ports), 3 I/O slots, a 3.5"/5.7" TFT LCD and a rubber keypad.

The Android 1.6 operating system has many advantages, including stability, hard real-time capabilities, small core size, and multiple development environments (ViewPAC SDK for Linux and Windows environments using the GNU C language, Android I/O driver and GUI software), etc.

The ViewPAC is designed to provide convenient, flexible and simplified solutions for industrial and embedded applications. Compared with traditional IPC + PLC solutions, ViewPAC reduces overall system cost and space, and gives you all the best features of both IPC and PLC.

Applications

Rich I/O Expansion Ability



Features

Software

- Android 1.6 Inside
- Development Environment
  - Provide ViewPAC SDK for Windows and Linux Environment
  - Support for GNU C Language
  - Support for Android I/O Driver (Java I/O Driver)
  - Support for GUI: Using GTK + Library
- Supported Communication
  - Wireless LAN, PPP over Modem, GPRS, Ethernet, Dual LAN
  - Expansion Serial Ports
  - USB to Serial Converter
  - DCON and Modbus Protocols
- Security
  - Unique Serial Number, VPN

Hardware

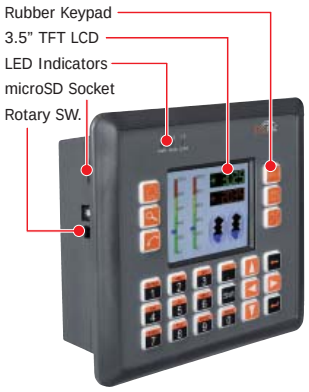
- PXA270 CPU (32-bit & 520 MHz)
- IP65 Compliant Front Panel
- 3.5"/5.7" TFT LCD (5.7" LCD is with Touch Panel)
- Rubber Keypad with 24/6 Keys
- Audio with Microphone-In and Earphone-Out
- 3 Slots for High Profile I/O Modules
- 64-bit Hardware Serial Number
- Dual Battery Backup SRAM (512 KB)
- One or two 10/100M Ethernet Ports
- Rich I/O Expansion Ability
- Operating Temperature: -20 ~ +70°C

Specifications

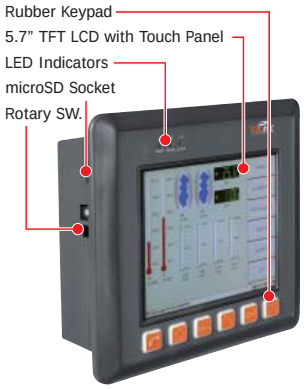
Models		VP-23A1	VP-25A1
System Software			
OS		Android 1.6	
SDK Provided		Standard ViewPAC SDK for Windows and Linux operating systems	
CPU Module			
CPU		PXA270 or compatible (32-bit and 520 MHz)	
SDRAM		128 MB	
Flash		96 MB (64 MB for OS image, 31 MB for built-in Flash disk, 1 MB for registry)	
Expansion Flash Memory		microSD socket with one 2 GB microSD card (support up to 16 GB microSDHC card)	
Dual Battery Backup SRAM		512 KB (for 5 years data retain while power off)	
EEPROM		16 KB; Data Retention: 40 years; 1,000,000 erase/write cycles	
RTC (Real Time Clock)		Provide second, minute, hour, date, day of week, month, year	
64-bit Hardware Serial Number		Yes, for Software Copy Protection	
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, LED indicators)	
USB 1.1 (host)		1	
COM 0		Internal communication with the high profile I-87K series modules in slots	
COM 1		-	
COM 2	RS-485	D2+, D2-; self-tuner ASIC inside	
	Isolation	2500 VDC	
COM 3		RS-232 (RxD, TxD, 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		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		10 ~ 90% RH (non-condensing)	
Power			
Input Range		+10 ~ +30 VDC	
Isolation		1 kV	
Capacity		2.5 A, 5 V supply to I/O expansion slots	
Consumption		7.2 W (0.3 A @ 24 VDC)	

Appearance

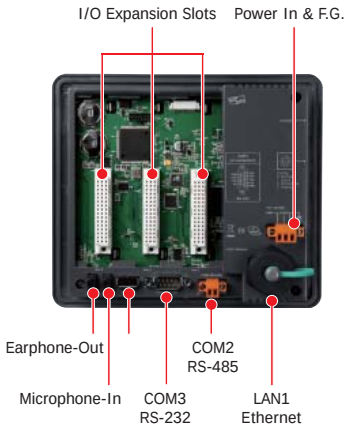
VP-23A1



VP-25A1



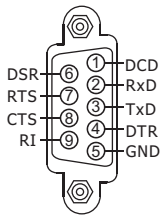
VP-23A1/25A1



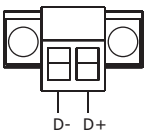
Pin Assignments

VP-23A1/25A1 COM Port

COM3: RS-232

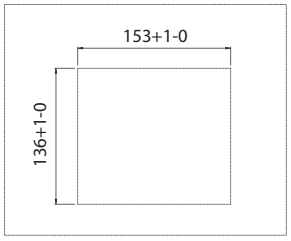


COM2: RS-485



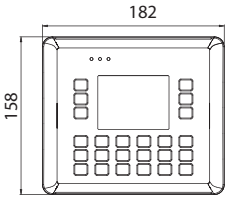
Dimensions (Units: mm)

VP-2000 Series



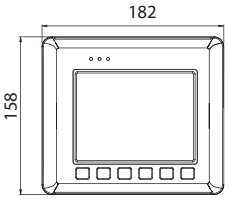
Recommended Panel Cut-Out

VP-23A1



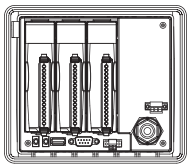
Front View

VP-25A1

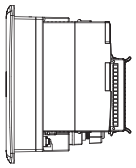


Front View

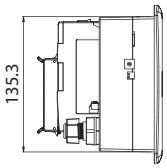
VP-2xA1



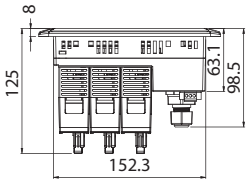
Rear View



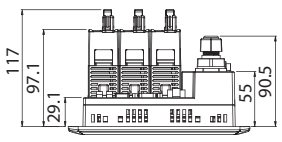
Left Side View



Right Side View



Top View



Bottom View

Ordering Information

VP-23A1-EN CR	Standard ViewPAC with 3.5" LCD and 3 I/O slots (English Version of OS) (RoHS)
VP-25A1-EN CR	Standard ViewPAC with 5.7" LCD and 3 I/O slots (English Version of OS) (RoHS)

Accessories

DP-660	24 VDC/2.5 A, 60 W and 5 VDC/0.5 A, 2.5 W Power Supply with DIN-Rail Mounting
MDR-60-24 CR	24 VDC/2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)