



Highlight Information

- Android 1.6 Inside
- PXA270 CPU (32-bit & 312 MHz) for VH-23/25A1
- PXA270 CPU (32-bit & 520 MHz) for VP-23/25A1
- 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 I/O Slots option
- One or two 10/100M Ethernet Ports
- 2 or 3 Serial Ports (RS-232, RS-485)
- Operating Temperature: -20 ~ +70 °C



Introduction

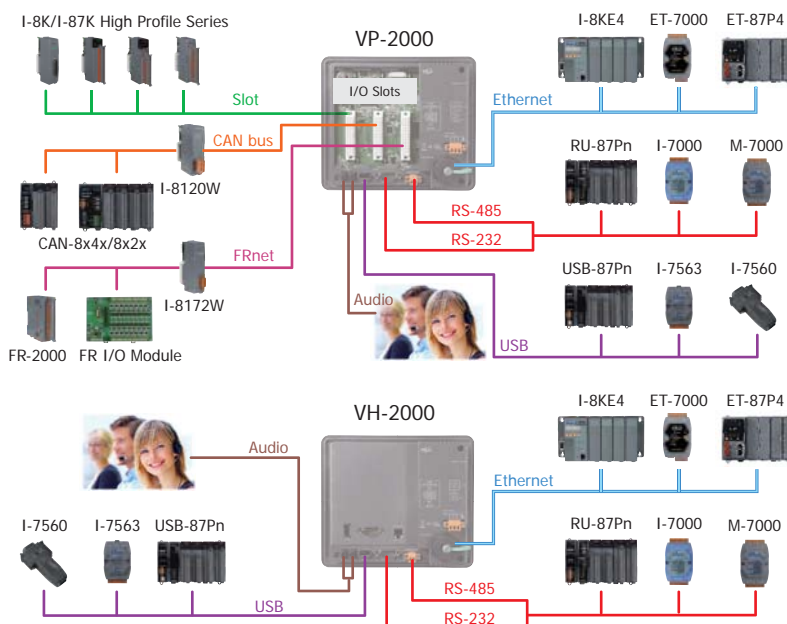
The ViewPAC combines LinPAC, a color graphic display and a keypad in one unit. It is equipped with a PXA270 CPU running the Android 1.6 operating system, multiple communication interfaces (USB, Ethernet, RS-232/485 and audio ports), 3 I/O slots, a 3.5"/5.7" TFT LCD and a rubber keypad.

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

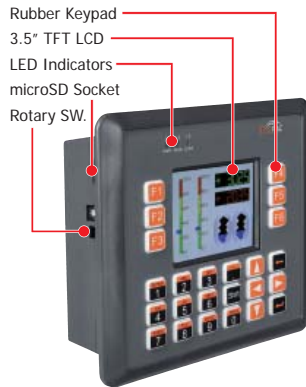
- PXA270 CPU (32-bit & 312 MHz) for VH-23/25A1
- PXA270 CPU (32-bit & 520 MHz) for VP-23/25A1
- IP65 Compliant Front Panel
- 3.5"/5.7" TFT LCD (5.7" LCD is with Touch Panel)
- Rubber Keypad with 24/6 Keys
- Audio with Microphone-In and Earphone-Out
- 3 Slots for High Profile I/O Modules
- 64-bit Hardware Serial Number for Software Protection
- Dual Battery Backup SRAM (512 KB)
- One or two 10/100M Ethernet Ports
- Rich I/O Expansion Ability
- Operating Temperature: -20 ~ +70 °C

Specifications

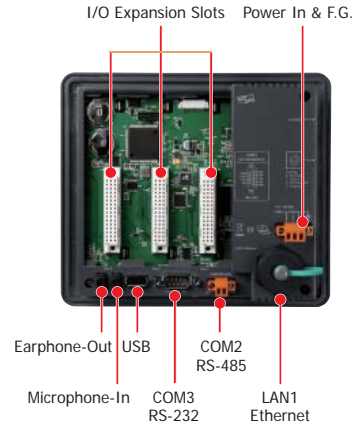
Models	VP-23A1	VP-25A1	VH-23A1	VH-25A1
System Software				
OS	Android 1.6			
SDK Provided	Standard ViewPAC SDK for Windows and Linux operating systems			
CPU Module				
CPU	PXA270 or compatible (32-bit and 520 MHz)		PXA270 or compatible (32-bit and 312 MHz)	
SDRAM	128 MB			
Flash	96 MB			
Expansion Flash 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 retention)			
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			
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)		RJ-45 x 2, 10/100 Base-TX (Auto-negotiating, LED indicators)	
USB 1.1 (host)	1		2	
COM 0	Internal communication with the high profile I-87K series modules in slots		-	
COM 1	-		RS-232 (Rx/D, Tx/D, CTS, RTS, DSR, DTR, CD, RI and GND); Non-isolated	
COM 2	RS-485	D2+, D2-; self-tuner ASIC inside		
	Isolation	2500 V _{dc}		
COM 3	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)	3.5" TFT (Resolution 320 x 240)	5.7" TFT (Resolution 640 x 480)
Touch Panel	-	Yes	-	Yes
Rubber Keypad	24 keys	6 Keys	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 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

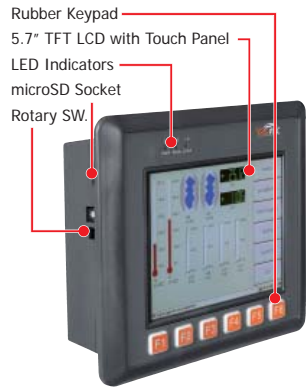
VP-23A1/VH-23A1



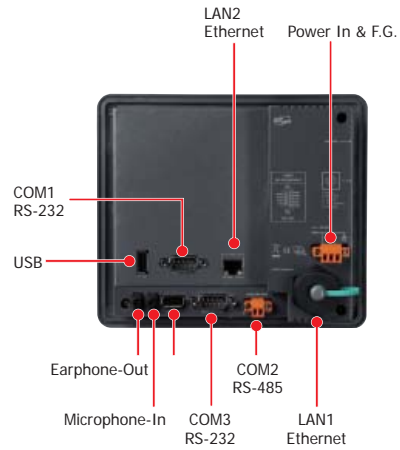
VP-23A1/25A1



VP-25A1/VH-25A1

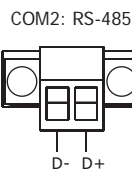
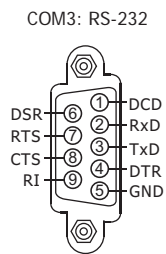


VH-23A1/25A1

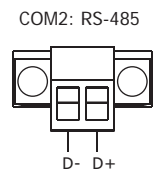
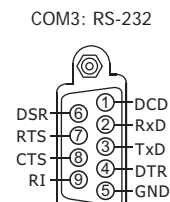
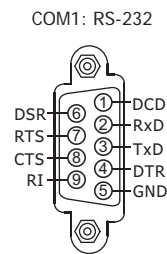


Pin Assignments

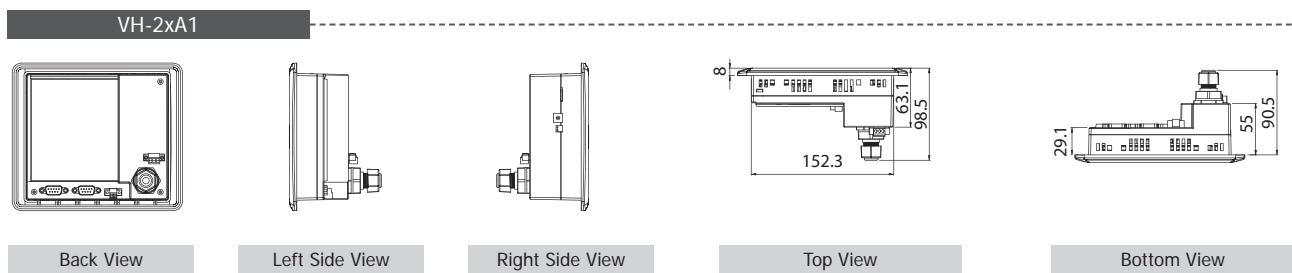
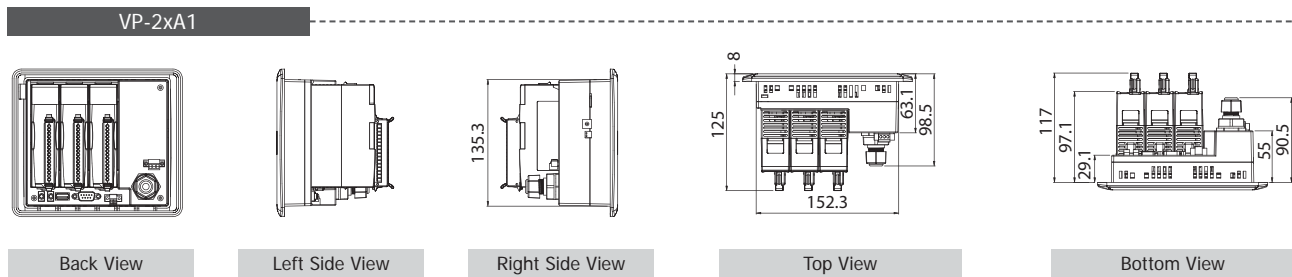
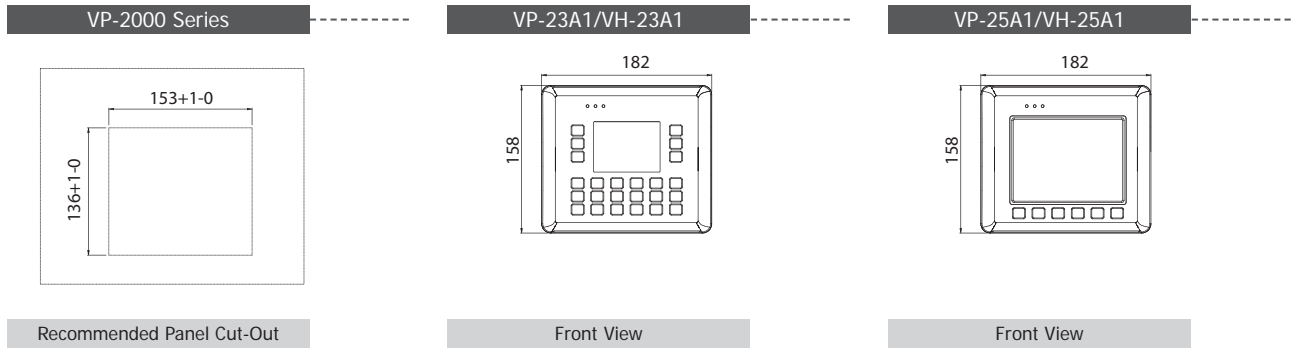
VP-23A1/25A1 COM Port



VH-23A1/25A1 COM Port



Dimensions (Unit: mm)



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)
VH-23A1-EN CR	Standard ViewPAC with 3.5" LCD (English Version of OS) (RoHS)
VH-25A1-EN CR	Standard ViewPAC with 5.7" LCD (English Version 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