Backplane Systems Technology Pty Ltd
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ViewPAC

Features

- 5.7", 10.4 and 15" TFT LCD
- Cortex-A8, 32-bit and 1 GHz CPU
- CE7 (Windows Embedded Compact 7)
- Hard Real-Time Capability
- 64-bit Hardware Serial Number
- Support eLogger HMI (free)
- Dual Watchdog Timers
- Ultra-Rugged Construction and Reliable Design
- Operating Temperature: -20 °C to +70 °C

Introduction

The VP-x231-CE7 are CE7 based ViewPAC that combine computing, I/O, and operator interface into a single unit, and provide the perfect solution for integrating HMI, data acquisition and control in an individual PAC. It is equipped with an ARM Cortex-A8 (32-bit and 1 GHz) CPU, TFT LCD and a variety of input/output ports (USB, Ethernet, RS-232/485). Local I/O slots are available to use our I-8K and I-87K series I/O modules and remote I/O expansion is available to use our Ethernet I/O modules and RS-485 I/O modules. Designed to operate over a wide -10 °C to 60 °C ambient temperature range, the fanless design offers the ultimate in reliability with no moving parts.

Windows Embedded Compact 7 is a componentized, hard real-time, high performance, and highly reliable operating system. CE7 delivers rich user experiences and a unique connection to Windows PCs, servers, services, and devices.

Windows Embedded Compact 7

CE7 is a compact and hard real-time OS used to quickly create time critical and high performance applications. Using CE7 gives an ability to run PC-based control software such as Visual Basic .NET, Virtual C#, SCADA software, SoftPLC… etc.

Windows® Embedded Compact 7

- Support PC based software: Visual Studio .NET
- Web server, FTP server, Telnet server

Specifications

Models	VP-1231-CE7	VP-4231-CE7	VP-6231-CE7
LCD Display			
Diagonal Size	5.7" TFT	10.4 TFT	15"
Resolution	640 x 480	800 x 600	1024 x 768
Touch Panel	Yes		
Rubber Keypad	6 Keys	-	
System Software			
OS	Windows CE 7.0		
Framework Support	.NET Compact Framework 3.5		
Embedded Service	FTP server, Web server (supports VB script, JAVA script), SQL Compact Edition 3.5		
SDK Provided	Dll for Visual Studio.Net 2008		
Multilanguage Support	English, German, French, Spanish, Portuguese, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese		
CPU Module			
CPU	Cortex-A8 (32-bit and 1.0 GHz)		
SDRAM	512 MB		
MRAM	128 KB		
Flash (SSD)	256 MB		
EEPROM	16 KB		
Expansion Flash Memory	microSD socket with one microSD card (support up to 32 GB)		
RTC (Real Time Clock)	Yes, provide second, minute, hour, date, day of week, month, year		
64-bit Hardware Serial Number	Yes, for software copy protection		
Dual Watchdog Timers	0.8 second		
LED Indicator	3 Dual-Color LEDs (PWR, RUN, LAN1, L1, L2, L3; L1 to L3 for User Programmable)	2 Dual-Color LEDs (Run and PWR)	
Rotary Switch	Yes, 0 ~ 9		
Communication Ports			
Ethernet	RJ-45 x 1, 10/100/1000 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)		
USB 2.0	1	3	
COM2	RS-485 (D2+, D2-); self-tuner ASIC inside; 2500 VDC Isolated		
COM3	RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, CD, RI and GND); Non-isolated		
Audio	Microphone-In and Earphone-Out	Earphone-out	Microphone-In and Earphone-Out
I/O Expansion Slots			
Slot Number	3 (COM0, for high profile I-8K and I-87K modules only)		
Mechanical			
Dimensions (W x H x D)	182 mm x 125 mm x 158 mm	293 mm x 129 mm x 229 mm	381 mm x 139 mm x 305 mm
Panel Cut-out (W x H)	153 mm x 136 mm ± 1.0 mm	276 mm x 214 mm ± 1.0 mm	366 mm x 290 mm ± 1.0 mm
Ingress Protection	Front panel: IP65		
Environmental			
Operating Temperature	-20 °C to +70 °C		
Storage Temperature	-30 °C to +80 °C		
Ambient Relative Humidity	10 % to 90 % RH (non-condensing)		
Power			
Input Range	+10 V_{DC} to +30 V_{DC}		
Redundant Power Inputs	-	Yes	
Isolation	1 kV		
Consumption	0.3 A @ 24 V_{DC}	0.45 A @ 24 V_{DC}	0.65 A @ 24 V_{DC}

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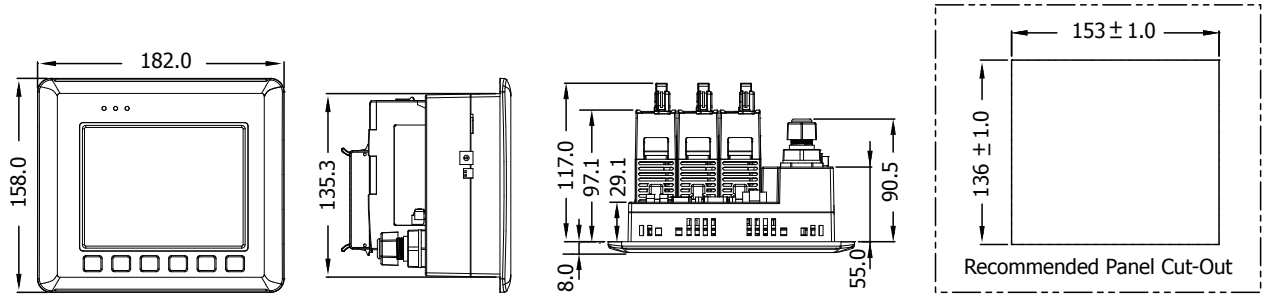
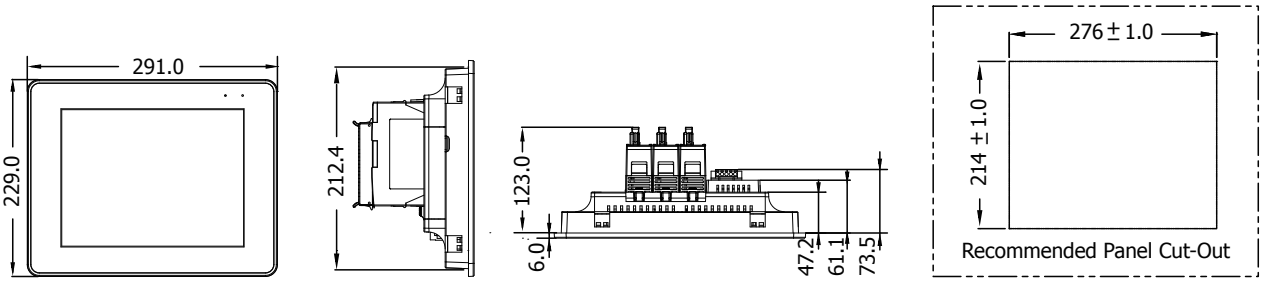
Dimensions

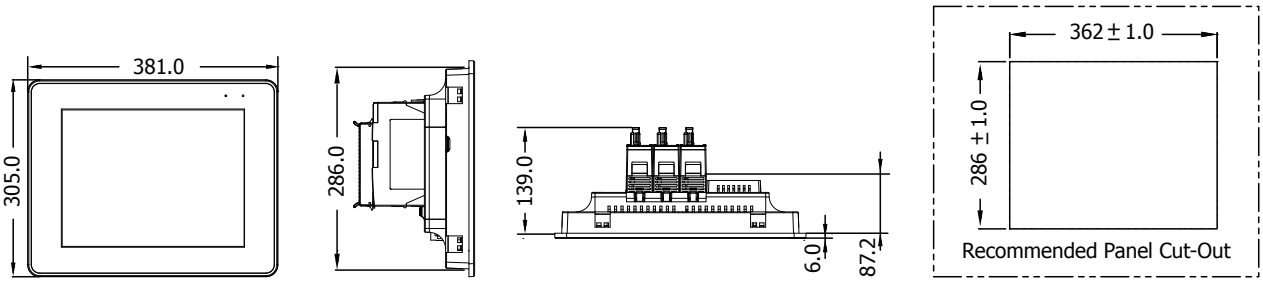
VP-1231-CE7



VP-4231-CE7

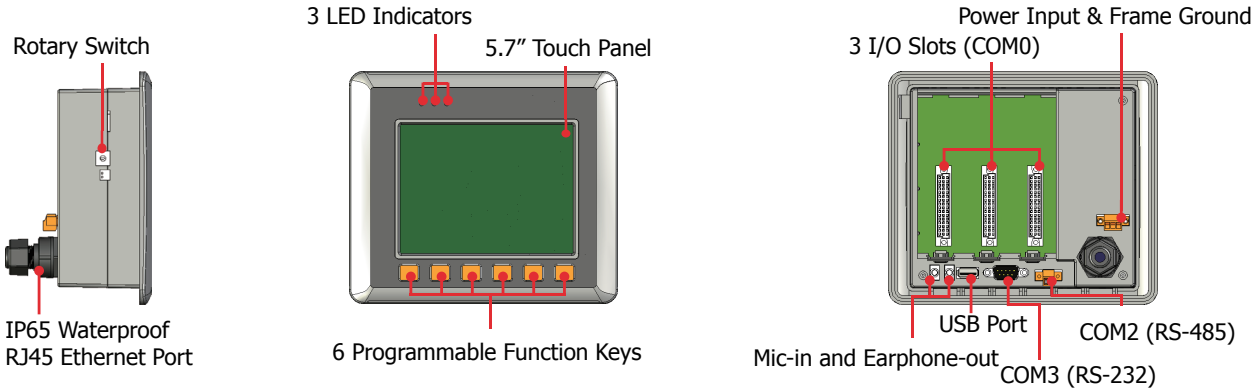


VP-6231-CE7

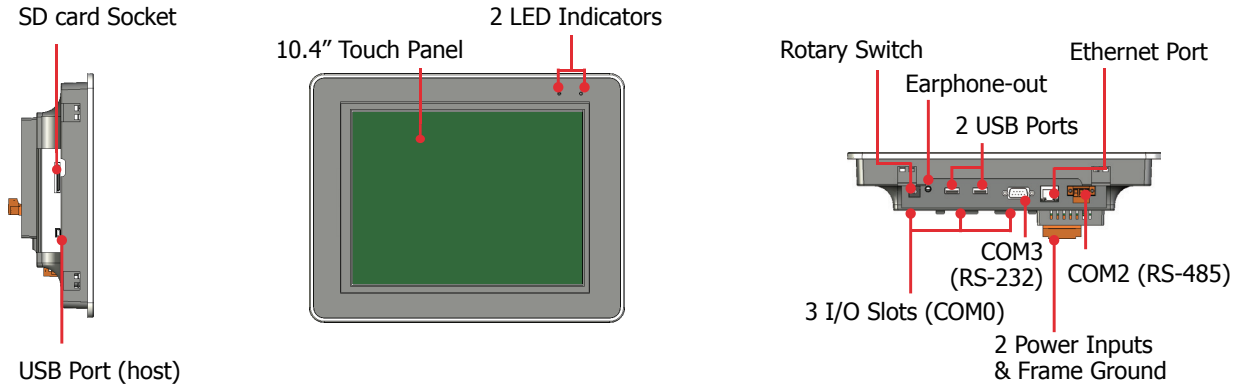


Appearances

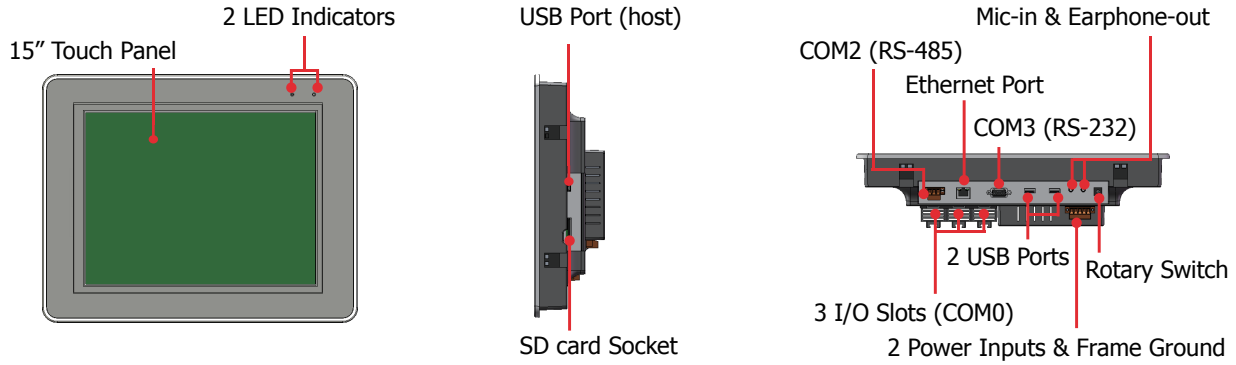
VP-1231-CE7



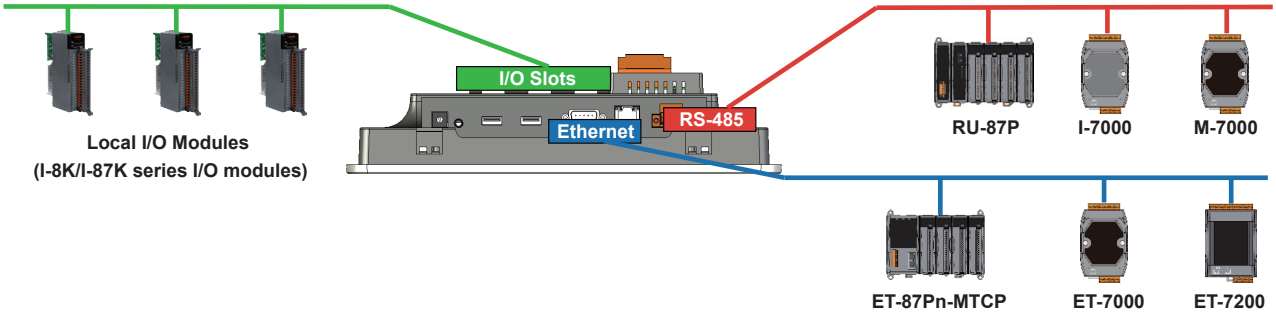
VP-4231-CE7



VP-6231-CE7



Application



Ordering Information

VP-1231-CE7	PAC with WinCE 7.0 of Standard ViewPAC with 5.7" LCD and 3 I/O slots
VP-4231-CE7	PAC with WinCE 7.0 of Standard ViewPAC with 10.4" LCD and 3 I/O slots
VP-6231-CE7	PAC with WinCE 7.0 of Standard ViewPAC with 15" LCD and 3 I/O slots

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-20-24 CR	24 VDC/1.0 A, 24 W Power Supply with DIN-Rail Mounting
MDR-60-24 CR	24 VDC/2.5 A, 60 W Power Supply with DIN-Rail Mounting
USB-2560 CR	4-Port Industrial USB 2.0 Hub (RoHS)
NS-208 CR	8-Port Unmanaged Industrial 10/100 Base-TX Ethernet Switch (RoHS)