VP-1231-CE7/VP-4231-CE7/VP-6231-CE7

5.7"/10.4/15" Standard ViewPAC with
Cortex-A8 CPU, WinCE 7.0, and 3 I/O Slots

Features

- 5.7", 10.4 and 15" TFT LCD with Touch Panel
- Cortex-A8, 1 GHz CPU
- Windows CE 7.0
- Hard Real-Time Capability
- 64-bit Hardware Serial Number
- Support eLogger HMI (free)
- 3 x I/O Expansion Slots
- NEMA 4/IP65 Compliant Front Panel
- Operating Temperature: -20 ~ +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.

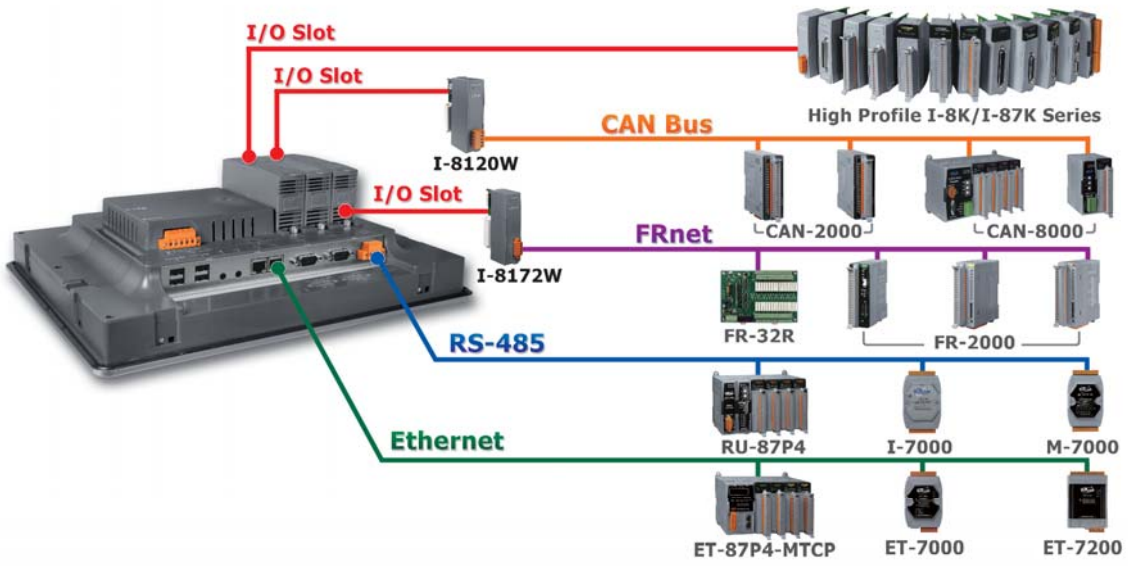
Windows Embedded Compact 7

Windows® Embedded Compact 7

Windows Embedded Compact 7 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.

- FTP Server
- Web Server
- SQL Compact Edition 3.5
- .NET Compact Framework 3.5
- Virtual CE Pro (VECP)

Applications



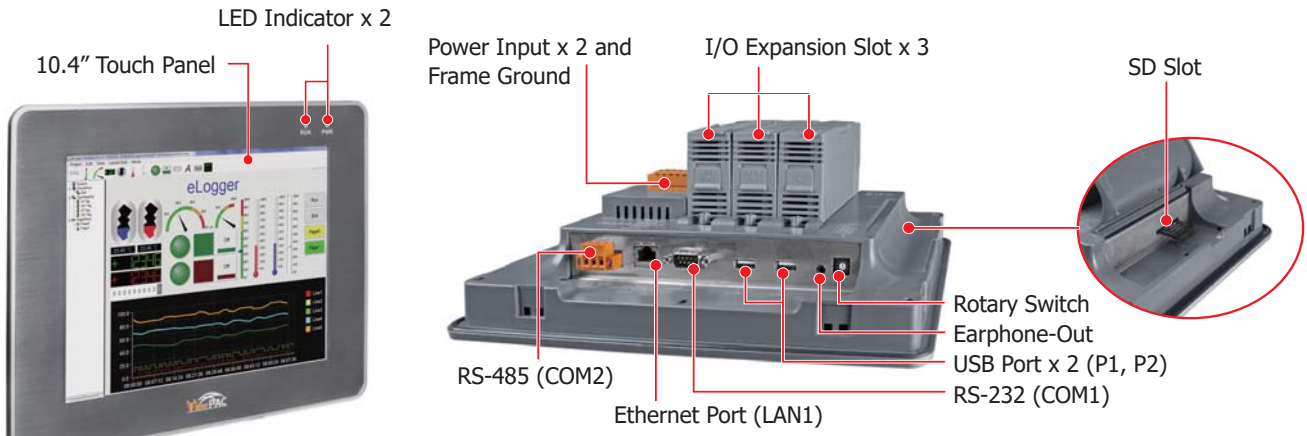
Specifications

Models	VP-1231-CE7	VP-4231-CE7	VP-6231-CE7
Display			
Size	5.7" (4:3)	10.4" (4:3)	15" (4:3)
Resolution	640 x 480	800 x 600	1024 x 768
Brightness	400 cd/m2		
Backlight Life	20,000 hours	50,000 hours	
Touch Panel	4-wire, resistive type; light transmission: 80 %	5-wire, resistive type; light transmission: 80 %	
Color	16 bit RGB, 64 K full Colors		
System Software			
OS	Windows CE 7.0		
Framework Support	.Net Compact Framework 3.5		
Service	FTP server, Web server (supports VB script, JAVA script), SQL Compact Edition 3.5		
SDK	Dll for VC, Dll for Visual Studio.Net 2008		
Multilanguage Support	English, German, French, Spanish, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese		
CPU Module			
CPU	Cortex-A8, 1.0 GHz		
System Memroy	512 MB SDRAM, 256 MB Flash		
Non-Volatile Memory	128 KB MRAM, 16 KB EEPROM		
Storage	microSD card (up to 32 GB)	A SD/microSD adapter and microSD card (up to 32 GB)	
RTC (Real Time Clock)	Provide seconds, minutes, hours, day of week/month, month and year		
64-bit Hardware Serial Number	Yes		
Watchdog Timer	Dual Watchdog Timer		
Rotary Switch	1 x 10 Position (0 ~ 9)		
LED Indicator	1 x System, 1 x Power, 1 x Ethernet, 3 x Programmable	1 x System, 1 x Power	
Audio	Microphone-In and Earphone-Out	Earphone-Out	Microphone-In and Earphone-Out
Rubber Keypad	6 Keys	-	
Buzzer	Yes		
Communication Interface			
Ethernet	1 x RJ-45, 10/100/1000 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)		
USB 2.0	1	2	
COM0	Internal communication with I-87K modules in slots		
COM1	-	RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, CD, RI, GND); Non-isolated	
COM2	RS-485 (D2+, D2-); self-tuner ASIC inside; 2500 VDC Isolated		
COM3	RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, CD, RI, GND); Non-isolated	-	
I/O Expansion			
I/O Type	I-8K, I-87K series		
Slots	3		
Mechanical			
Dimensions (W x L x H)	182 mm x 158 mm x 125 mm	293 mm x 229 mm x 129 mm	381 mm x 305 mm x 139 mm
Panel Cut-out (W x H)	153 mm x 136 mm, ±1 mm	276 mm x 214 mm, ±1 mm	366 mm x 290 mm, ±1 mm
Weight	675 g	2005 g	3030 g
Installation	Panel Mounting		
Ingress Protection	Front panel: NEMA 4/IP65		
Environmental			
Operating Temperature	-20 °C ~ +70 °C		
Storage Temperature	-30 °C ~ +80 °C		
Humidity	10 ~ 90 % RH, Non-condensing		
Power			
Input Range	+10 ~ 30 VDC (1 kV Isolated)		
Redundant Power Inputs	-	Yes	
Consumption	0.3 A @ 24 VDC	0.45 A @ 24 VDC	0.65 A @ 24 VDC

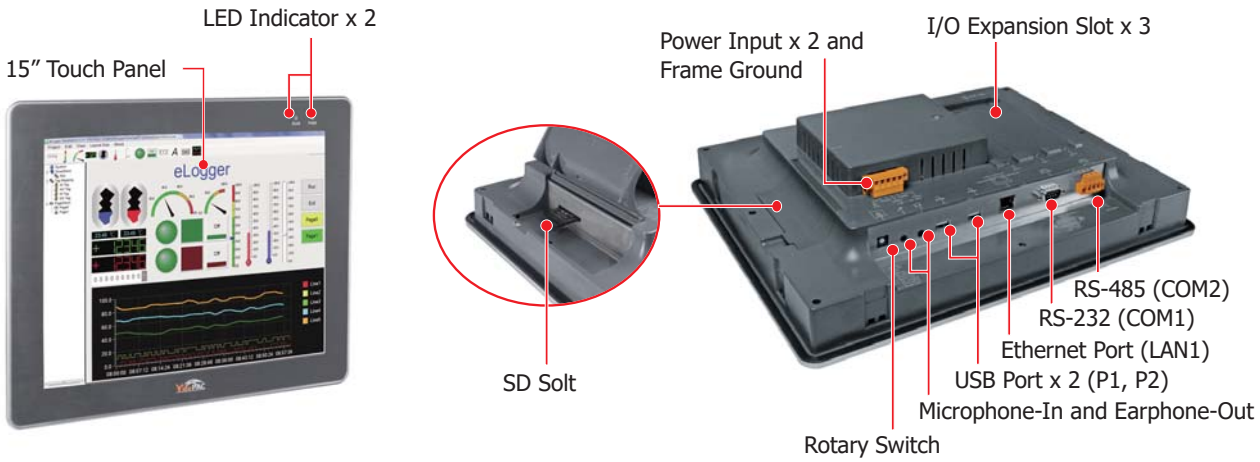
Appearance

VP-1231-CE7

VP-4231-CE7

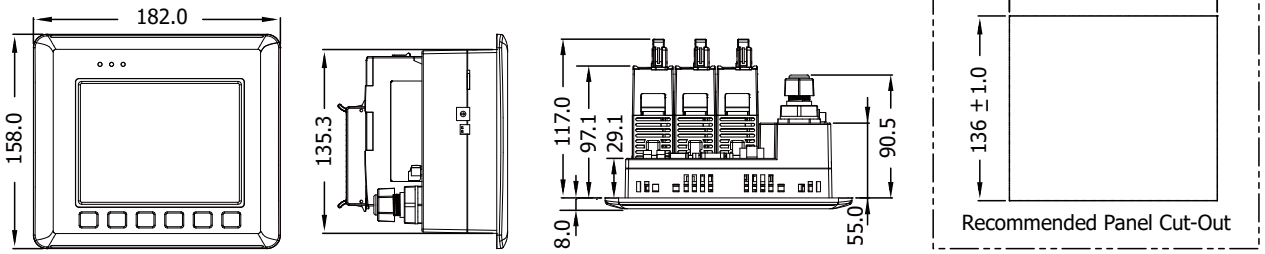


VP-6231-CE7



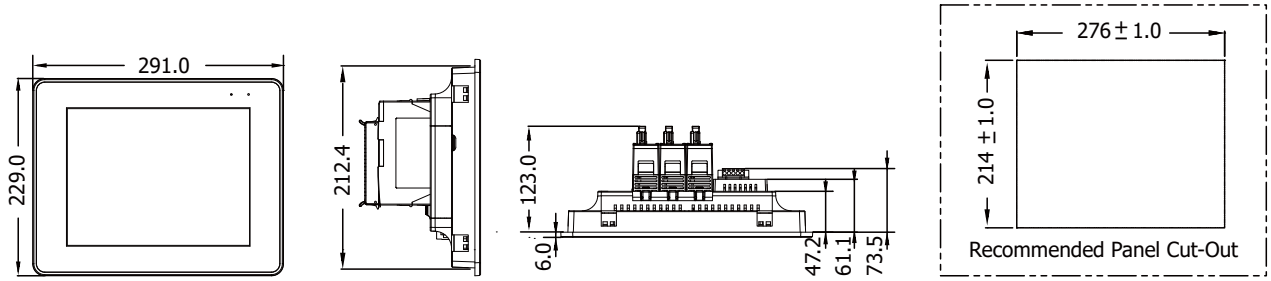
Dimensions (Units: mm)

VP-1231-CE7



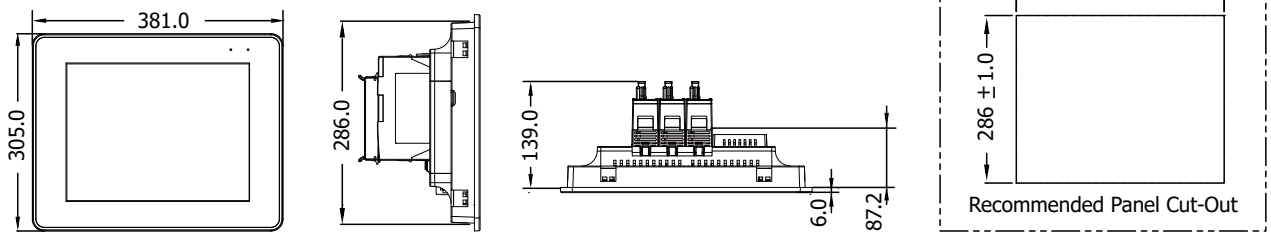
Front Veiw | Left Side View | Top View

VP-4231-CE7



Front Veiw | Left Side View | Top View

VP-6231-CE7



Front Veiw | Left Side View | Top View

Ordering Information

VP-1231-CE7 CR	5.7" Standard ViewPAC with Cortex-A8 CPU, WinCE 7.0, and 3 I/O Slots (RoHS)
VP-4231-CE7 CR	10.4" Standard ViewPAC with Cortex-A8 CPU, WinCE 7.0, and 3 I/O Slots (RoHS)
VP-6231-CE7 CR	15" Standard ViewPAC with Cortex-A8 CPU, WinCE 7.0, and 3 I/O Slots (RoHS)