



### Features

- 5.7" and 10.4" 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



**ViewPAC**

### 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.



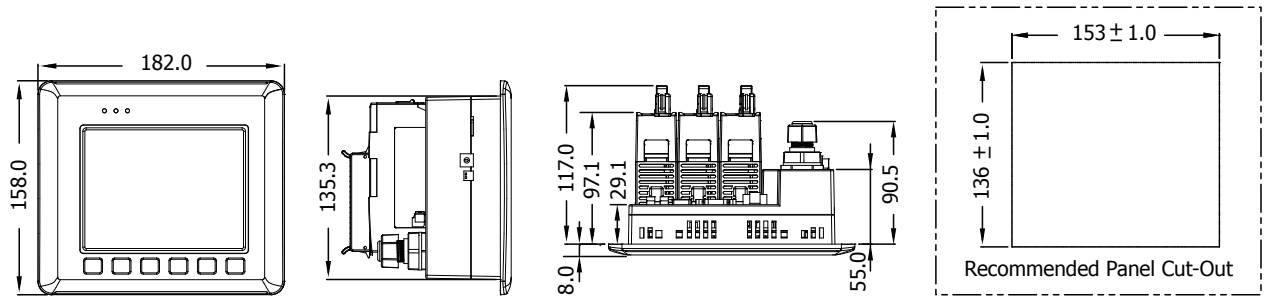
- Support PC based software: Visual Studio .NET
- Web server, FTP server, Telnet server

## Specifications

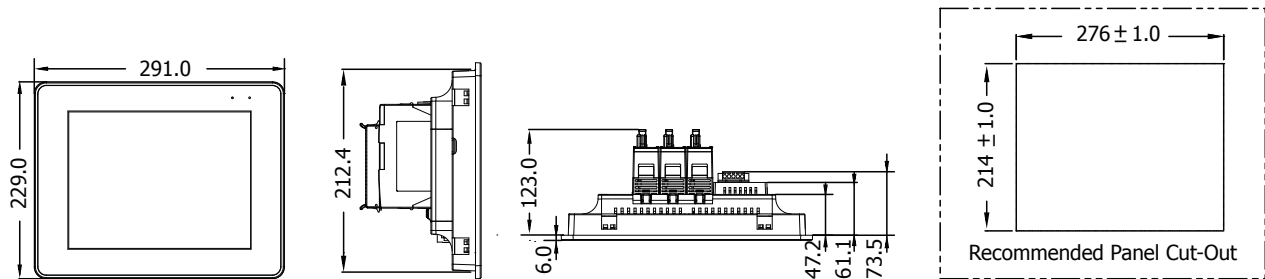
Models	VP-1231-CE7	VP-4231-CE7
<b>LCD Display</b>		
Diagonal Size	5.7" TFT	10.4 TFT
Resolution	640 x 480	800 x 600
Touch Panel	Yes	
Rubber Keypad	6 Keys	-
LED Indicator	3 Dual-Color LEDs (PWR, RUN, LAN1, L1, L2, L3; L1 to L3 for User Programmable)	2 Dual-Color LEDs (Run, PWR)
<b>System Software</b>		
OS	Windows CE.NET 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	DII for Visual Studio.Net 2008	
Multilanguage Support	English, German, French, Spanish, Portuguese, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese	
<b>CPU Module</b>		
CPU	Cortex-A8 (32-bit and 1 GHz)	
SDRAM	512 MB	
MRAM	128 KB	
Flash (SSD)	256 MB	
EEPROM	16 KB	
Expansion Flash Memory	microSD socket (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	
Rotary Switch	Yes, 0 ~ 9	
<b>Communication Ports</b>		
Ethernet	1 x RJ-45 10/100/1000 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)	
USB 2.0 (host)	1	2
USB 2.0 (client)	1	1
COM0	Internal communication with I-87K modules in slots	
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
<b>I/O Expansion Slots</b>		
Slot Number	3 (for high profile I-8K and I-87K modules only)	
<b>Mechanical</b>		
Dimensions (W x H x D)	182 mm x 125 mm x 158 mm	293 mm x 129 mm x 231 mm
Ingress Protection	Front panel: IP65	
<b>Environmental</b>		
Operating Temperature	-20 °C to +70 °C	
Storage Temperature	-30 °C to +80 °C	
Ambient Relative Humidity	10 % to 90 % RH (non-condensing)	
<b>Power</b>		
Input Range	+10 VDC to +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)	8.5 W

## Dimensions

### VP-1231-CE7



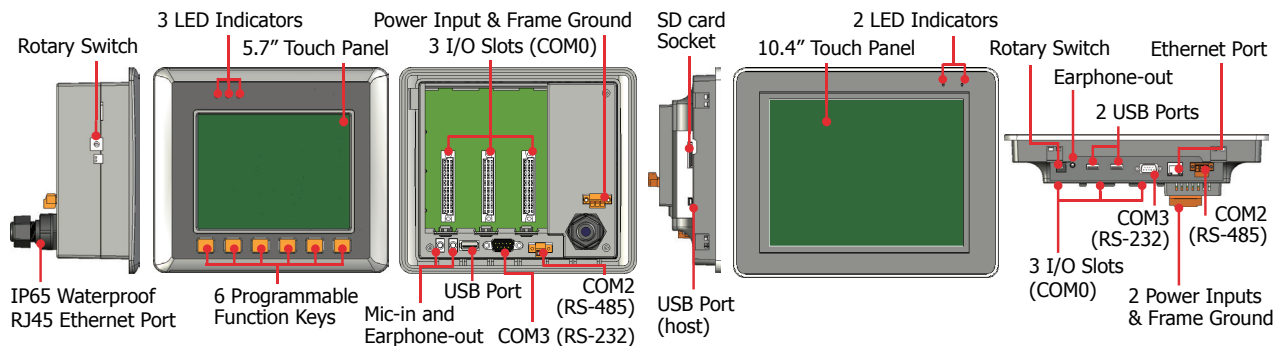
### VP-4231-CE7



## Appearances

### VP-1231-CE7

### VP-4231-CE7



## 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

## 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)

