



VP-6208-CE7 VP-5208-CE7 VP-4208-CE7 VP-3208-CE7 VP-2208-CE7

Win-GRAF based ViewPAC

■ Features

- 15", 12.1", 10.4", 8.4", 7" TFT LCD
- Cortex-A8, 1 GHz CPU
- CE7 (Windows Embedded Compact 7)
- Embedded Win-GRAF SoftLogic (IEC 61131-3)
- Hard Real-Time Capability
- PoE (Power over Ethernet)
- NEMA 4/IP65 Compliant Front Panel
- Modbus RTU/TCP (Master, Slave)
- Support eLogger HMI
- Audio with Earphone-Out
- Operating Temperature: -10 ° C ~ +60 ° C











Introduction

The Win-GRAF ViewPAC Series (VP-2208-CE7/VP-3208-CE7/VP-4208-CE7/VP-5208-CE7/VP-6208-CE7) are WinCE7 based Win-GRAF SoftLogic ViewPAC that combine computing 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 a Cortex-A8 (1 GHz) CPU, TFT LCD and a variety of connectives including Gigabit Ethernet, USB port, RS-232 and RS-485 interface. I/O expansion is available to use our Ethernet I/O modules and RS-485 I/O modules. Designed for panel mount installation, the front panel is NEMA 4/IP65 rated and can withstand sprayed water, humidity and extreme dust. Designed to operate over a wide -10° C $\sim 60^{\circ}$ C ambient temperature range, the fanless design offers the ultimate in reliability with no moving parts.

The Win-GRAF ViewPAC are capable of running Win-GRAF (IEC 61131-3 Standard) software to develop logic control, and also provide a free HMI software "eLogger" to edit the HMI by graphical drag and drop the HMI objects, or support M.S. VS 2008 software (VB .NET, C#) to develop HMI and data management applications, and all can exchange data with Win-GRAF applications. So the application's design is more convenient and practical.

■ Win-GRAF

Win-GRAF is a powerful, PLC-like, softlogic development software. It is installed on PC with windows 7/8 (or later version). It supports the international PLC language standard - IEC 61131-3 - Ladder Diagram (LD), Function Block Diagram (FBD), Sequential Function Chart (SFC), Structured Text (ST), Instruction Set (IL), suitable to develop applications for the full range of Win-GRAF PACs from ICP DAS.

The features of the Win-GRAF:

- IEC 61131-3 Standard Open PLC Syntax (LD, FBD, SFC, ST, IL)
- Using ST Syntax in the FBD or LD Program
- Event Triggered Data Binding (Exchange Data between PACs)
- Online Debugging/Control/Monitoring, Offline Simulation
- On Line Change
- Various Protocols:
 - Modbus TCP/UDP, Modbus RTU/ASCII Master
 - Modbus TCP, RTU Slave
 - DCON ...
- Plenty of Functions, Function Blocks, I/O Boards
- Redundancy
 - For XP-8xx8-CE6 and RPAC-2658M





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■ PAC Specifications

Models		VP-2208-CE7	VP-3208-CE7	VP-4208-CE7	VP-5208-CE7	VP-6208-CE7		
LCD				1 1200 021	11 0200 021	111 0200 021		
Diagonal Siz	 e	7" (16:9)	8.4" (4:3)	10.4" (4:3)	12.1" (4:3)	15" (4:3)		
Resolution		800 x 480	800 x 600	1011 (1.5)	1211 (1.5)	1024 x 768		
		800 x 480 800 x 600 1024 x 768						
Brightness (cd/m2)								
Contrast Ratio		500 : 1						
LED Backlight Life (hrs)		20,000 50,000 4-wire, resistive						
Touch Panel		type; light transmission: 80 %	ht S-wire, resistive type;					
LED Indicator		1 x System, 1 x Power						
System So	ftware							
OS		Windows CE 7.0						
Framework Support		.NET Compact Framework 3.5						
Embedded S	Service	FTP server, Web server (supports VB script, JAVA script), SQL Compact Edition 3.5						
SDK Provide	d	DII for Visual Studio.Net						
Multilanguac	ie Support	English, German, French, Spanish, Portuguese, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese						
	ent Software	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,			
	Win-GRAF	IEC 61131-3 standar	d					
Win-GRAF Software	Languages	LD, ST, FBD, SFC, IL						
	Max, Code Size							
		2 MB						
Scan Time Non-Win-GRAF		3 ~ 15 ms for normal program; 15 ~ 50 ms (or more) for complex or large program Options: VS.NET 2008 (VB.NET, C#.NET, C)						
		Options, VS.INET 200	OO (VD.INET, C#.INET, V	~)				
CPU Modu	ie	Cautau AO 4 CUL						
CPU		Cortex-A8, 1 GHz						
DRAM		512 MB (DDR3)						
MRAM		128 MB						
Flash (SSD)		256 MB						
EEPROM		16 KB						
Expansion Flash Memory		4 GB microSD card (up to 32 GB) A SD/microSD adapter and 4 GB microSD card (up to 32 GB)						
RTC (Real Time Clock)		Provides seconds, minutes, hours, dates, day of week, month, year						
64-bit Hardware Serial Number		Yes, for Software Copy Protection						
Watchdog Timer		Yes						
Rotary Switc		0 ~ 9						
	cation Interface	e						
Ethernet		1 x RJ-45, 10/100/1000 Base-T (Auto-negotiating, Auto MDI/MDI-X, LED indicators)						
USB 2.0 (hos	st)	2						
COM 1		RS-232/RS-485; 2500 VDC isolated - RS-232/RS-485 (DB9 connector); 2500 VDC isolated						
COM 2		RS-232 (TxD, RxD, CTS, RTS) /RS-485 (Data+, Data-) (9-wire DB9 connector); 2500 VDC isolated						
COM 3		- RS-485 (Data+, Data-, GND); 2500 VDC isolated						
Audio		Earphone-out						
Mechanica								
Dimensions (WxHxD) Unit: mm		213 x 148 x 44	249 x 207 x 64	291 x 229 x 54	324 x 255 x 64	381 x 305 x 63		
Panel Cut-Out (W x H)		197 x 133, ± 1	235 x 193, ± 1	277 x 215, ± 1	310 x 241, ± 1	362 x 286, ± 1		
Installation		Panel Mounting, VESA (75 x 75) Mounting						
Ingress Prot	ection	Front panel: NEMA 4	I/IP65					
Environme	ental							
Temperature		Operating Temperature: -10 $^{\circ}$ C $_{\sim}$ +60 $^{\circ}$ C / Storage Temperature: -20 $^{\circ}$ C $_{\sim}$ +70 $^{\circ}$ C						
Ambient Relative Humidity		10 ~ 90% RH (non-condensing)						
Power	•	, ,						
	/Power from PoE	+12 VDC ~ +48 VD0	C / IEEE 802.3af					
Isolation			1 kV					
Consumption	1	6 W	7.5 W	13 W	14 W	16 W		
Сопѕиприоп		~ **	,15 VV	13 44	±1 VV	10 44		

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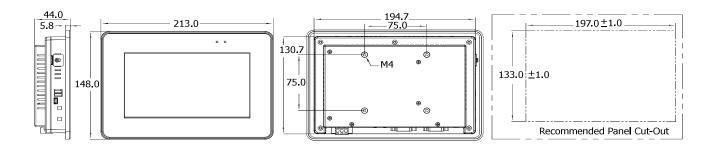
■ Win-GRAF Specifications

Models	VP-2208-CE7	VP-3208-CE7	VP-4208-CE7, VP-5208-CE7, VP-6208-CE7				
Protocols (Note that cer	tain protocols require	optional devices)					
NET ID	1~255, for Modbus TCF	P/RTU Slave, user-assigne	d				
Modbus TCP/IP Master	A max. of 200 IP links to access/control the devices supporting Standard Modbus TCP/IP Slave protocol.						
Modbus RTU/ASCII	Max. 2 RS-485 ports: COM1 ~ 2	Max. 2 RS-485 ports: COM2 ~ 3	Max. 3 RS-485 ports: COM1 ~ 3				
Master	Using COM ports to connect other Modbus Slave devices (Like M-7000). Recommend connecting no more than 32 devices in each port for better scan rate.						
Modbus RTU Slave	Max. 2 RS-485 ports: COM1 ~ 2	Max. 2 RS-485 ports: COM2 ~ 3	Max. 3 RS-485 ports: COM1 ~ 3				
	Using COM ports for connecting SCADA/HMI.						
Modbus TCP/IP Slave	One Ethernet ports (LAN1) support up to 64 connections. If the PAC uses 1 connection to connect each PC/HMI, it can connect up to 64 PCs/HMIs; If the PAC uses 2 connections to connect each PC/HMI, it can connect up to 32 PCs/HMIs; If one of the Ethernet port malfunctions, the other one can still be used to connect the PC/HMI.						
Licar defined Protocol	COM1 ~ 2	COM2 ~ 3	COM1 ~ 3				
User-defined Protocol	Custom protocols can b	e applied at COM by using	g Serial communication functions or function blocks.				
	Max. 2 RS-485 ports: COM1 ~ 2	Max. 2 RS-485 ports: COM2 ~ 3	Max. 3 RS-485 ports: COM1 ~ 3				
DCON Remote I/O	Each port can connect max. 50 nos I-7000 series modules or 50 nos I-87xxxW I/O modexpansion units (I-87K4, I-87K8, I-87K9, RU-87P8, RU-87P4). Recommend connecting no modules in each port for better scan rate.						
App Protection	Using the unique 64-bit (8 bytes) PAC serial number to generate a protection password by your own algorithm to protect your Win-GRAF application. Then, if someone intend to copy your application in the PAC to another new PAC with the same PAC model, this application will not work properly in that new PAC.						
Data Binding	Exchange data between ICP DAS Win-GRAF PAC via Ethernet port (LAN1). The data transmission is event triggered. It is much efficient than polling way.						
On Line Change	For application field that not allowed to stop the Win-GRAF program as modified a little from the original program.		Win-GRAF program and wish to run a new program				
Modbus RTU I/O		When software enables Modbus RTU Master function, the PAC can connect ICP DAS M-7000 and series and LC series I/O modules which support Modbus RTU protocol.					
Modbus TCP I/O		When software enable Modbus TCP Master function, the PAC can connect ET-7000, I-8KE4/8-MTC and tPET/tET series I/O modules of ICP DAS which support Modbus TCP protocol.					
Schedule Control	Supports the "Schedule-Control Utility" (free) to implement schedule control. Each PAC can control max. 10 Targets (devices) with different schedule settings in each day / holiday / special day / season / year.						
Retain Variables	Built-in the fast retain n	nemory that can retain up	to 12,000 Win-GRAF variables.				
File Access & Data Log	The Win-GRAF supports file operation functions to read/write files in the PAC's micro_SD or flash memory to do data log or file access.						
eLogger HMI	Support to run HMI pr program in the same PA		e eLogger) together with the Win-GRAF logic-control				

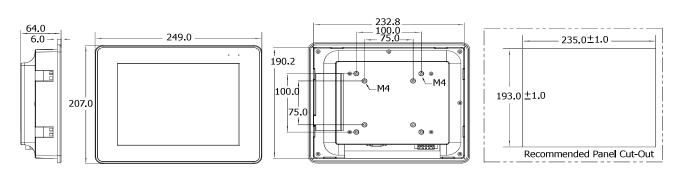
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Dimensions

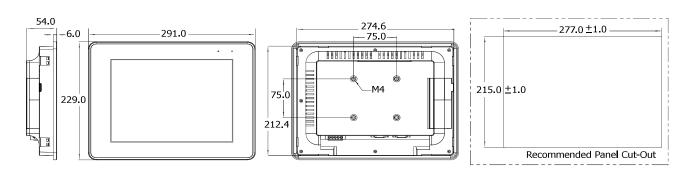
VP-2208-CE7



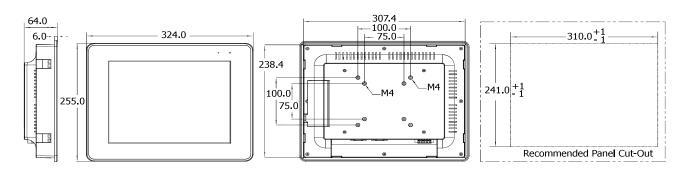
VP-3208-CE7



VP-4208-CE7



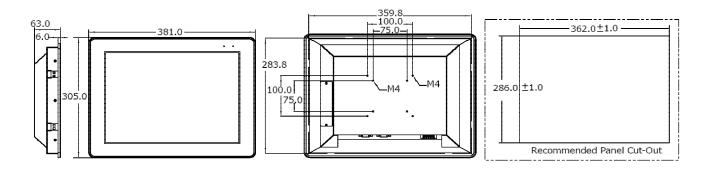
VP-5208-CE7



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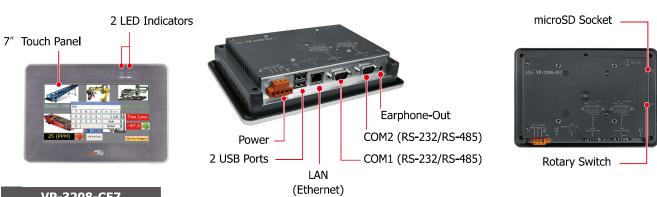


VP-6208-CE7

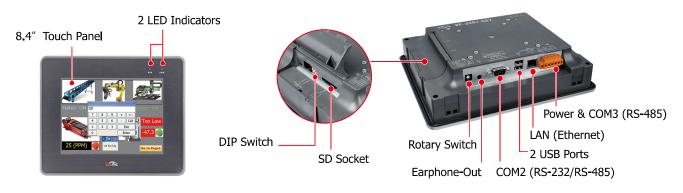


Appearance

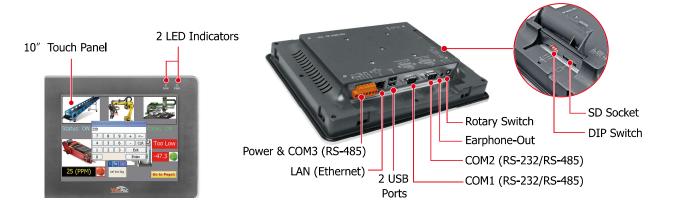
VP-2208-CE7







VP-4208-CE7



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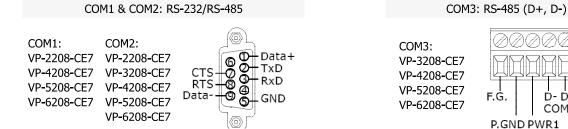
VP-5208-CE7



VP-6208-CE7



■ Pin Assignment



Ordering Information

VP-2208-CE7 CR	7" Win-GRAF based ViewPAC with Cortex-A8, 1 GHz CPU and CE7 OS (RoHS)
VP-3208-CE7 CR	8.4" Win-GRAF based ViewPAC with Cortex-A8, 1 GHz CPU and CE7 OS (RoHS)
VP-4208-CE7 CR	10.4" Win-GRAF based ViewPAC with Cortex-A8, 1 GHz CPU and CE7 OS (RoHS)
VP-5208-CE7 CR	12.1" Win-GRAF based ViewPAC with Cortex-A8, 1 GHz CPU and CE7 OS (RoHS)
VP-6208-CE7 CR	15" Win-GRAF based ViewPAC with Cortex-A8, 1 GHz CPU and CE7 OS (RoHS)

COM3 (RS-485)

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■ Related Products

Win-GRAF Development Software			
Win-GRAF Workbench	Win-GRAF Workbench Software (Large I/O Tags) with one USB Dongle		