



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 (720 MHz/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 ~ 60° C ambient temperature range, the fanless design offers the ultimate in reliability with no moving parts.

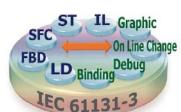
The Win-GRAF ViewPAC are capable of running Win-GRAF (IEC 61131-3 Standard) software to develop logic control, and also provide a free HMI software "eLogger" to edit the HMI by graphical drag and drop the HMI objects, or support M.S. VS 2008 software (VB .NET, C#) to develop HMI and data management applications, 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 PAC only)





PAC Specifications

Models		VP-2208-CE7	VP-3208-CE7	VP-4208-CE7	VP-5208-CE7	VP-6208-CE7		
		VP-2208-CE/	VP-3208-CE7	VP-4208-CE7	VP-5208-CE/	VP-0208-CE/		
LCD		711 (1.5, 0)	0.411.(4.2)	10 41 (4 2)	12 11 (1 2)	4511 (4.2)		
Diagonal Size	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			1024 x 768		
Brightness (cd/m2)	400						
Contrast Ratio		500:1						
LED Backlight Life (hrs)		20,000 50,000						
Touch Panel		4-wire, resistive type; light transmission: 80 %						
LED Indicator		2 (Run, PWR)						
System So	ftware							
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						
Multilanguage Support		English, German, French, Spanish, Portuguese, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese						
	ent Software	Linglish, German, Tre	nch, Spanish, Fortugue					
Developing		IEC (1121 2 stondard						
	Win-GRAF	IEC 61131-3 standard						
Win-GRAF	Languages	LD, ST, FBD, SFC, IL						
Software	Max. Code Size	2 MB						
	Scan Time	$3 \sim 15$ ms for normal program; $15 \sim 50$ ms (or more) for complex or large program						
Non-Win-GRAF		Options: VS.NET 2008 (VB.NET, C#.NET, C)						
CPU Modu	le							
CPU		Cortex-A8, 720 MHz Cortex-A8, 1 GHz						
DRAM		512 MB (DDR3)						
MRAM		128 MB						
Flash (SSD)		256 MB						
EEPROM		16 KB						
Expansion Flash Memory		microSD socket with a 4 GB microSD card (support up to 32 GB) SD socket with a 4 GB microSD card and a microSD adapter						
RTC (Real Time Clock)		Provides seconds, minutes, hours, date, day of week, month, year						
64-bit Hardware Serial Number		Yes, for Software Copy Protection						
Dual Watchdog Timers		0.8 second						
Rotary Switch								
	ation Interfac	<u>م</u>						
Ethernet			000 Base-T (Auto-neg	otiating Auto MDI/MI)I-X LED indicators)			
	ct)	1 x RJ-45, 10/100/1000 Base-T (Auto-negotiating, Auto MDI/MDI-X, LED indicators) 2						
USB 2.0 (host) COM 1		RS-232/RS-485; 2500 VDC isolated	-	RS-232/RS-485 (DB	9 connector); 2500 VI	DC 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	al second							
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 Protection		Front panel: NEMA 4/IP65						
Environme			.,					
Temperature		Operating Temperate	ure: -10 ° C ~ ±60 ° C	C / Storage Temperatu	re: -20 ° C ~ ±70 ° C			
Ambient Relative Humidity		Operating Temperature: -10 ° C ~ +60 ° C / Storage Temperature: -20 ° C ~ +70 ° C 10 ~ 90% RH (non-condensing)						
	anve numidity							
Power	(Denner from D. T.							
Input Range/Power from PoE		+12 VDC ~ +48 VDC / IEEE 802.3af						
Isolation		-	1 kV	40.00		46.14		
Consumption		6 W	7.5 W	13 W	14 W	16 W		

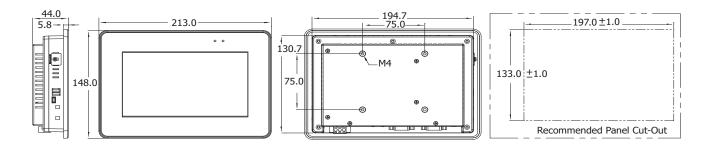


Win-GRAF Specifications

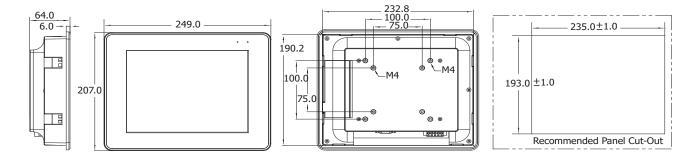
Models	VP-2208-CE7	VP-3208-CE7	VP-4208-CE7, VP-5208-CE7, VP-6208-CE7			
Protocols (Note that certa	in protocols require o	optional devices)				
NET ID	1~255, for Modbus TCP/RTU Slave, user-assigned					
Modbus TCP Master	A max. of 200 IP links to access/control the devices supporting Standard Modbus TCP 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 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 Slave One Ethernet ports (LAN1) support up to 64 connections. If the PAC uses 1 connection to each PC/HMI, it can connect up to 64 PCs/HMIs; If the PAC uses 2 connections to connect HMI, it can connect up to 32 PCs/HMIs; If one of the Ethernet port malfunctions, the other still be used to connect the PC/HMI.						
User-defined Protocol	COM1 ~ 2	COM2 ~ 3	COM1 ~ 3			
User-defined Protocol	Custom protocols can be	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		4, I-87K8, I-87K9, RU-87I	eries modules or 50 nos I-87xxxW I/O modules in P8, RU-87P4). Recommend connecting no more than			
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 and wish to run a new program modified a little from the original program.					
Modbus RTU I/O	When software enables Modbus RTU Master function, the PAC can connect ICP DAS M-7000 and tM series and LC series I/O modules which support Modbus RTU protocol.					
Modbus TCP I/O	Nodbus TCP I/OWhen software enable Modbus TCP Master function, the PAC can connect ET-7000, and tPET/tET series I/O modules of ICP DAS which support Modbus TCP protocol.					
Schedule Control	edule Control Supports the "Schedule-Control Utility" (free) to implement schedule control. Each PAC can cor max. 10 Targets (devices) with different schedule settings in each day / holiday / special day / sea / year.					
Retain Variables	Built-in the fast retain memory 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 program (developed by the eLogger) together with the Win-GRAF logic-control program in the same PAC.					
* Note: VP-2208-CE7 has n	o COM3. VP-3208-CE	7 has no COM1.				

Dimensions

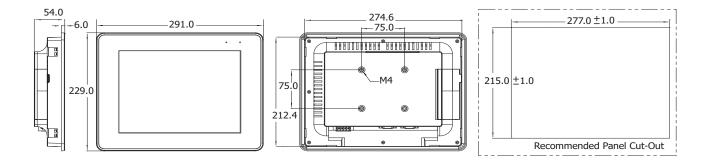
VP-2208-CE7



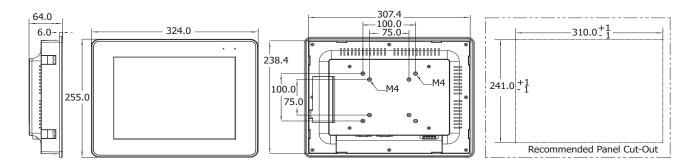
VP-3208-CE7



VP-4208-CE7

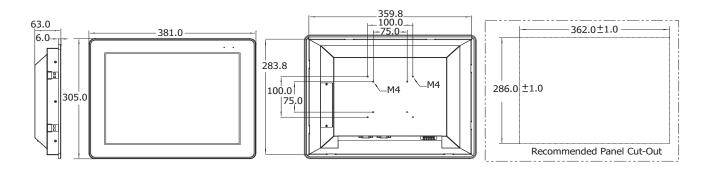


VP-5208-CE7



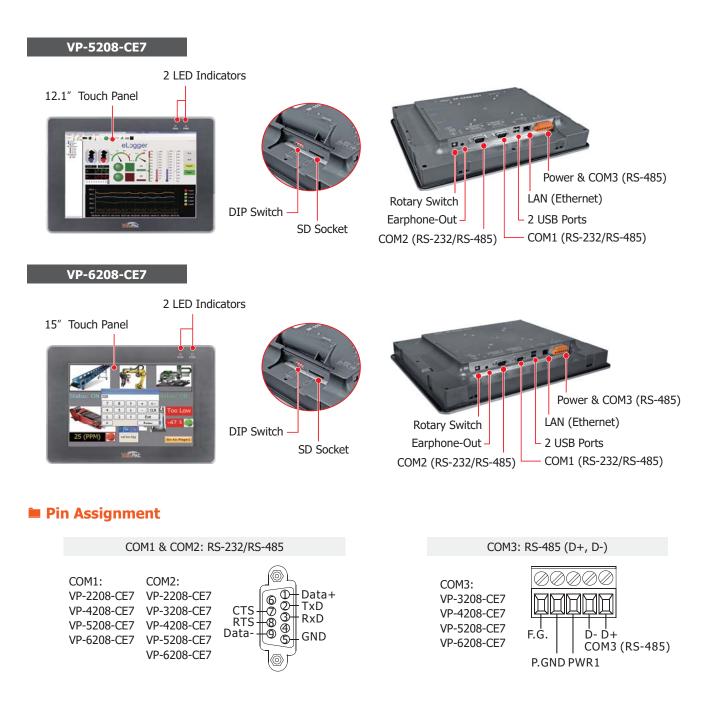


VP-6208-CE7



Appearance





Ordering Information

VP-2208-CE7 CR	7" Win-GRAF based ViewPAC with Cortex-A8, 720 MHz 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)		

Related Products

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