





VP-1238-CE7

VP-4238-CE7 VP-6238-CE7

Win-GRAF based ViewPAC

■ Features

- 5.7"/10.4"/15" TFT LCD
- Cortex-A8 CPU (32-bit & 1 GHz)
- Windows CE.NET 7.0 Inside
- Embedded Win-GRAF SoftLogic (IEC 61131-3)
- Hard Real-Time Capability
- 3 Slots for High Profile I/O Modules
- IP65 Compliant Front Panel
- Modbus RTU/TCP (Master, Slave)
- Support eLogger HMI
- Audio with Microphone-In and Earphone-Out
- Operating Temperature: -20 ~ +70 ° C









Introduction

The Win-GRAF ViewPAC with I/O slot Series (VP-1238-CE7, VP-4238-CE7, VP-6238-CE7) is the new generation WinCE 7.0 based Win-GRAF PAC (Programmable Automation Controller) from ICP DAS. Each PAC is equipped with a Cortex-A8 CPU (32-bit & 1 GHz) running a Windows CE 7.0 operating system, a variety of input/output ports (USB, Ethernet, RS-232/485), 3 I/O slots that can be used to integrate high performance parallel I/O modules (high profile I-8K Series) or serial I/O modules (high profile I-87K series), and a 5.7" /10.4" /15" TFT LCD with a rubber keypad.

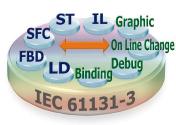
The Win-GRAF ViewPAC are capable of running Win-GRAF (IEC 61131-3 Standard) software to develop logic control, and also provide a free HMI software "eLogger" to edit the HMI by graphical drag and drop the HMI objects, or support M.S. VS 2008 software (VB .NET, C#) to develop HMI and data management applications,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





■ PAC Specifications

Models		VP-1238-CE7	VP-4238-CE7	VP-6238-CE7
MMI (Man	Machine Inter	face)		
LCD		5.7" TFT (Resolution 640 x 480)	10.4" TFT (Resolution 800 x 600)	15" TFT (Resolution 1027 x 768)
Touch Panel		Yes		
Rubber Keyp	oad	6 Keys	-	
Audio		Microphone-In and Earphone-Out	Earphone-Out	Microphone-In and Earphone-Out
LED Indicators		1 x System, 1 x Power, 1 x Ethernet, 3 x Programmable	1 x System, 1 x Power	
System So	ftware	T X Edicinety 5 X 110grammable		
OS		Windows CE 7.0		
Framework Support		.NET Compact Framework 3.5		
Embedded Service		FTP server, Web server (support VB script, JAVA script), SQL Compact Edition 3.5		
SDK Provided		Dll for VC, Dll for Visual Studio.Net 2008		
Multilanguage Support		English, German, French, Spanish, Russian, Italian, Korean, Simplified Chinese, Traditional Chinese		
	ent Software	English, Comman, French, Spanish,	, reason, remain, resear, simplified	Tadriesia cimiese
- Creiopiii	Win-GRAF	IEC 61131-3 standard		
Win-GRAF	Languages	LD, ST, FBD, SFC, IL		
Software	Max. Code Size	2 MB		
	Scan Time	3 ~ 15 ms for normal program; 15 ~ 50 ms (or more) for complex or large program		
Non-Win-GR		Options: VS.NET 2008 (VB.NET, C		large program
CPU Modu		Options. VS.NET 2008 (VB.NET, C	#.NE1, C)	
	ie	Cortoy AS (22 bit and 1 CHz)		
CPU		Cortex-A8 (32-bit and 1 GHz)		
SDRAM		512 MB		
MRAM		128 MB		
Flash		256 MB		
EEPROM		16 KB		
	lash 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, day of week/month, month and year, valid from 1980 to 2079		
64-bit Hardware Serial Number		Yes		
Watchdog Timer		Yes		
Rotary Switch		1 x 10 Position (0 ~ 9)		
	cation Interfac	T		
Ethernet		RJ-45 x 1, 10/100/1000 Base-T (A	uto-negotiating, Auto MDI/MDI-X, L	ED indicators)
USB 2.0 (host)		1	2	
COM 0		Internal communication with I-87		
COM 1		RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, CD, RI and GND); Non-isolated		
COM 2		RS-485 (D2+, D2-); self-tuner ASI	C inside; 2500 VDC Isolated	
COM 3		RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, CD, RI and GND); Non-isolated	-	
I/O Expan	sion Slot			
Slot Number		3 (For High Profile I-8K and I-87K	Modules Only)	
Mechanica	ol .			
Dimensions (W x H x D)		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-ou	ıt (W x H)	153 mm x 136 mm <u>+</u> 1.0 mm	276 mm x 214 mm <u>+</u> 1.0 mm	366 mm x 290 mm <u>+</u> 1.0 mm
Ingress Protection		Front panel: IP65		
Weight		1.5 Kg	3.6 Kg	4.9 Kg
Environme	ental			-
Operating Te		-20 ° C ~ +70 ° C		
Storage Temperature		-30 ° C ~ +80 ° C		
Ambient Relative Humidity		10% ~ 90% RH, non-condensing		
Power	,	,,		
Input Range		+10 ~ +30 VDC	+10 ~ +30 VDC (Redundant Power	er Inputs)
Isolation		1 kV		
Capacity		2.5 A, 5 V supply to I/O expansion	n slots	
Consumption		0.3 A @ 24 VDC	0.45 A @ 24 VDC	0.65 A @ 24 VDC
Silvanipuon		013 A @ 27 VDC	0. 13 A @ 27 VDC	0.03 A @ 27 VDC

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■ Win-GRAF Specifications

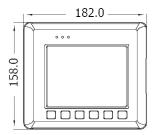
5, for Modbus TCP/RTU Slave, user-assigned x. of 200 IP links to access/control the devices supporting Standard Modbus TCP/IP Slave col. x. of 14 ports: COM1, 2, 3 and COM5 to 16 (*) COM ports to connect other Modbus Slave devices (Like M-7000). Recommend connecting no than 32 devices in each port for better scan rate. x. of 14 ports: COM1, 2, 3 and COM5 to 16 (*) COM ports for connecting SCADA/HMI. Ethernet ports (LAN1) support up to 64 connections. If the PAC uses 1 connection to connect PC/HMI, it can connect up to 64 PCs/HMIs; If the PAC uses 2 connections to connect each PC/it can connect up to 32 PCs/HMIs; If one of the Ethernet port malfunctions, the other one can be used to connect the PC/HMI.
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The first court is given as in the court of
m protocols can be applied at COM by using Serial communication functions or function blocks.
k. of 14 RS-485 ports: COM1, 2, 3 and COM5 to 16 (*)
port can connect max. 50 nos I-7000 series modules or 50 nos I-87xxxW I/O modules in sion units (I-87K4, I-87K8, I-87K9, RU-87P8, RU-87P4). Recommend connecting no more than odules in each port for better scan rate.
orts only high profile I/O modules. Slot 0~2 supports I-8xxxW parallel I/O modules and I-87xxxW I/O modules.
the unique 64-bit (8 bytes) PAC serial number to generate a protection password by your own thm to protect your Win-GRAF application. Then, if someone intend to copy your application in AC to another new PAC with the same PAC model, this application will not work properly in that PAC.
inge data between ICP DAS Win-GRAF PAC via Ethernet port (LAN1). The data transmission is triggered. It is much efficient than polling way.
oplication field that not allowed to stop the Win-GRAF program and wish to run a new program ied a little from the original program.
software enables Modbus RTU Master function, the PAC can connect ICP DAS M-7000 and tM and LC series I/O modules which support Modbus RTU protocol.
software enable Modbus TCP Master function, the PAC can connect ET-7000, I-8KE4/8-MTCP PET/tET series I/O modules of ICP DAS which support Modbus TCP protocol.
orts the "Schedule-Control Utility" (free) to implement schedule control. Each PAC can control 10 Targets (devices) with different schedule settings in each day / holiday / special day / season :
n the fast retain memory that can retain up to 12,000 Win-GRAF variables.
Win-GRAF supports file operation functions to read/write files in the PAC's micro_SD or flash ory to do data log or file access.
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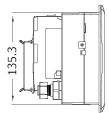
Note: The COM5 \sim COM16 ports are located in the expansion boards if they are installed in slot 0 \sim 2 of PAC. VP-1238-CE7 has no COM1 and VP-4238-CE7/VP-6238-CE7 has no COM3.

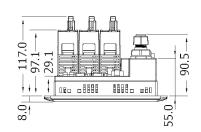
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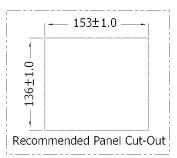
Dimensions

VP-1238-CE7

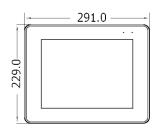


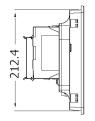


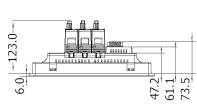


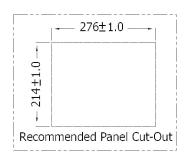


VP-4238-CE7

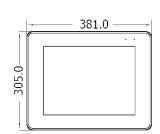


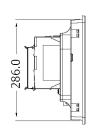


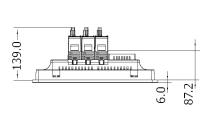


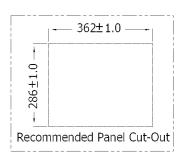


VP-6238-CE7









Appearance

VP-1238-CE7

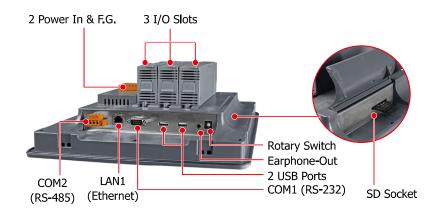






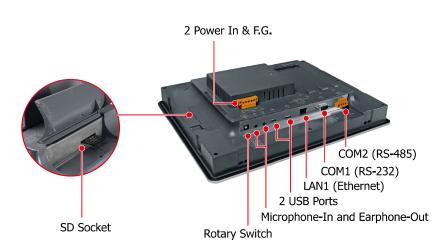
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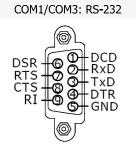


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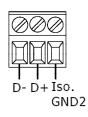




■ Pin Assignment







Ordering Information

VP-1238-CE7 CR	Win-GRAF based ViewPAC with 5.7" LCD and 3 I/O slots (RoHS)
VP-4238-CE7 CR	Win-GRAF based ViewPAC with 10.4" LCD and 3 I/O slots (RoHS)
VP-6238-CE7 CR	Win-GRAF based ViewPAC with 15" LCD and 3 I/O slots (RoHS)

■ Related Products

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

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