

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

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

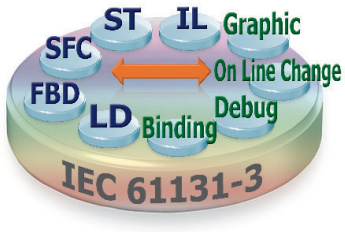
The Win-GRAF ViewPAC are capable of running Win-GRAF (IEC 61131-3 Standard) software to develop logic control, and also provide a free HMI software "eLogger" to edit the HMI by graphical drag and drop the HMI objects, or support M.S. VS 2008 software (VB .NET, C#) to develop HMI and data management applications, 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 soft logic programming platform compliant with the IEC 61131-3 standard, designed for developing industrial control and automation solutions. It serves as a framework that allows users to create customized applications for various industrial systems, such as Programmable Logic Controllers (PLCs), Remote Terminal Units (RTUs), and embedded controllers. The Workbench supports all IEC 61131-3 programming languages, including Structured Text (ST), Function Block Diagram (FBD), Ladder Diagram (LD), Instruction List (IL), and Sequential Function Chart (SFC). With diverse libraries and built-in function blocks, it works seamlessly with all ICP DAS Win-GRAF controllers for fast and efficient development.

The features of the Win-GRAF:

- IEC 61131-3 Standard Open PLC Syntax (LD, FBD, SFC, ST, IL)
- Open Architecture: to integrate and customize for specific applications
- Event Triggered Data Binding (Exchange Data between PACs)
- Provide IDE: includes a user-friendly graphical user interface
- On Line Program Modification
- Various Protocols
- Plenty of Functions, Function Blocks, I/O Boards
- Redundancy





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PAC Specifications

Models	VP-2208-CE7	VP-3208-CE7	VP-4208-CE7	VP-5208-CE7	VP-6208-CE7
LCD					
Diagonal Size	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 %	5-wire, resistive type; light transmission: 80 %			
LED Indicator	1 x System, 1 x Power				
System Software					
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				
Development Software					
Win-GRAF Software – Win-GRAF	IEC 61131-3 standard				
Win-GRAF Software – Languages	LD, ST, FBD, SFC, IL				
Win-GRAF Software – Max. Code Size	2 MB				
Win-GRAF Software – Scan Time	3 ~ 15 ms for normal program; 15 ~ 50 ms (or more) for complex or large program				
Non-Win-GRAF	Options: VS.NET 2008 (VB.NET, C#.NET, C)				
CPU Module					
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 Switch	0 ~ 9				
Communication Interface					
Ethernet	1 x RJ-45, 10/100/1000 Base-T (Auto-negotiating, Auto MDI/MDI-X, LED indicators)				
USB 2.0 (host)	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				
Mechanical					
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				
Environmental					
Temperature	Operating Temperature: -10 ° C ~ +60 ° C / Storage Temperature: -20 ° C ~ +70 ° C				
Ambient Relative Humidity	10 ~ 90% RH (non-condensing)				
Power					
Input Range/Power from PoE	+12 VDC ~ +48 VDC / IEEE 802.3af				
Isolation	-	1 kV			
Consumption	6 W	7.5 W	13 W	14 W	16 W

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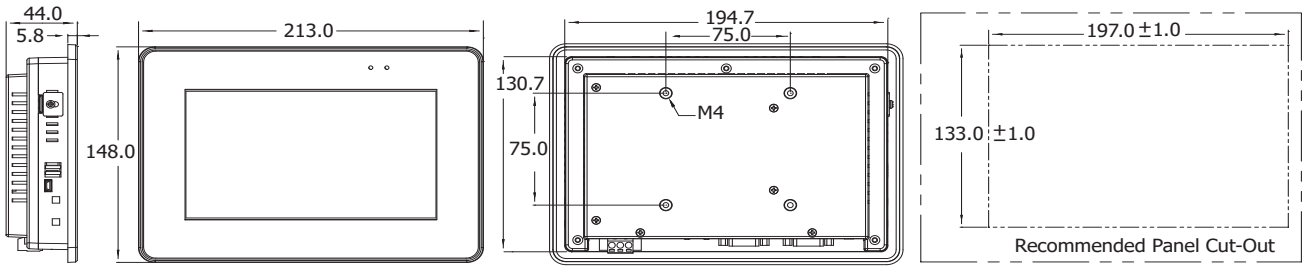
Win-GRAF Specifications

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Protocols (Note that certain protocols require optional devices)	
OPC UA Server	The OPC UA Server is an application that provides data and information, serving as the core of OPC UA technology. It is responsible for managing, collecting, storing, and distributing data. Functioning like a central controller, the OPC UA Server connects to various clients to enable data access and exchange.
Modbus TCP/IP Master	Supports connection of up to 32 IP devices
Modbus TCP/IP Slave	Supported. Up to 32 connections supported via two Ethernet ports (LAN1 & LAN2).
Modbus RTU/ASCII Master	Supported. Up to 36(*) communication ports.
Modbus RTU Slave	Supported. Up to 16(*) communication ports.
User-defined Protocol	Supported. Up to 16(*) communication ports.
Functions	
eLogger HMI	Supports eLogger.
Password Protection	Equipped with a built-in 64-bit (8-byte) hardware serial number and a proprietary algorithm that generates authentication codes to effectively protect the security of Win-GRAF programs.
Data Binding	Supported. Enables data exchange between Win-GRAF Runtime devices.
Online Program Modification	Supports the On-line Change function.
Retain Variables	Supported. Up to 120K bytes of non-volatile memory for data retain after power loss.
File Access & Data Log	Supports file Read/Write.
Additional I/O Module Support	
Modbus TCP I/O	Supports ET-7000 series, I-8KE4/8-MTCP, and tPET/tET series I/O modules.
Modbus RTU I/O	Supports M-7000 series, tM series, and LC series I/O modules.
DCON Remote I/O	Supports I-7000 series, M-7000 series, and I-87K expansion units.
***The number of COM ports depends on the model configuration and the use of expansion communication modules (e.g., I-8144iW, I-8142iW, I-8112iW, I-8114iW…)**	

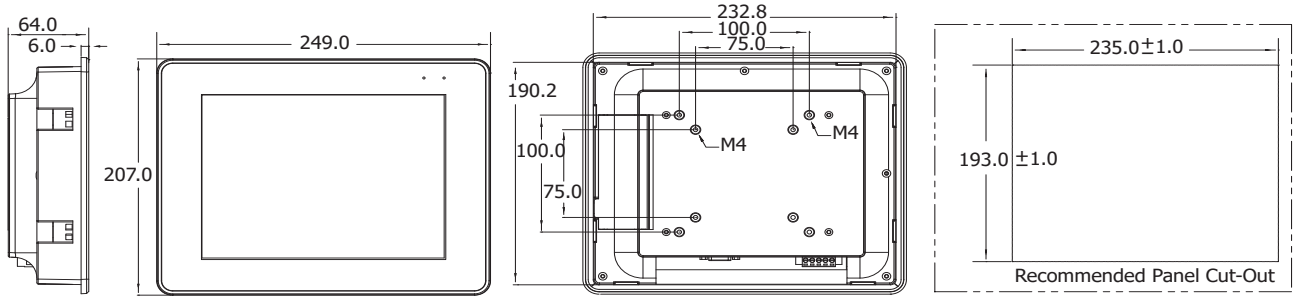
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Dimensions

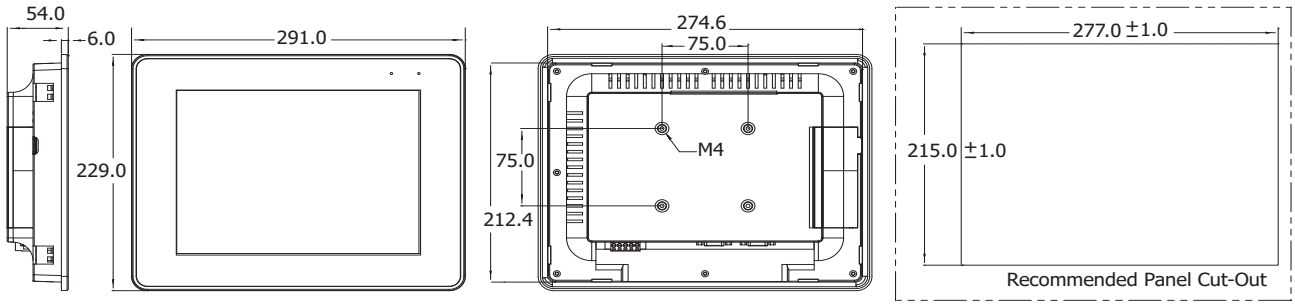
VP-2208-CE7



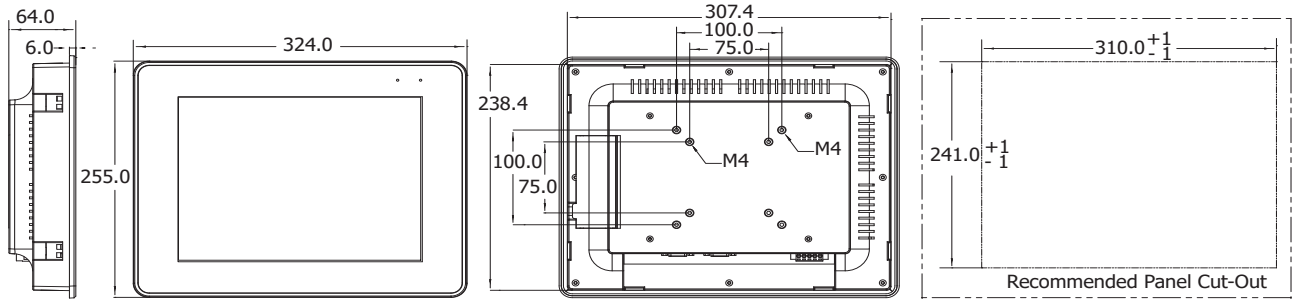
VP-3208-CE7



VP-4208-CE7

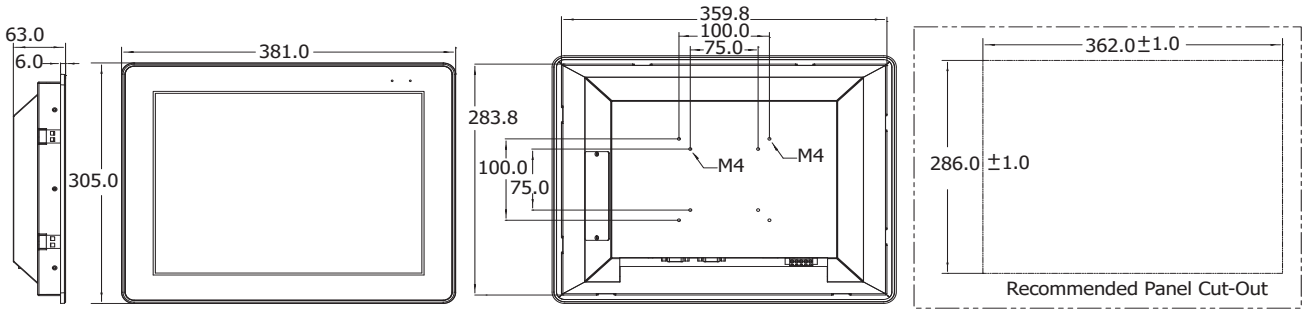


VP-5208-CE7



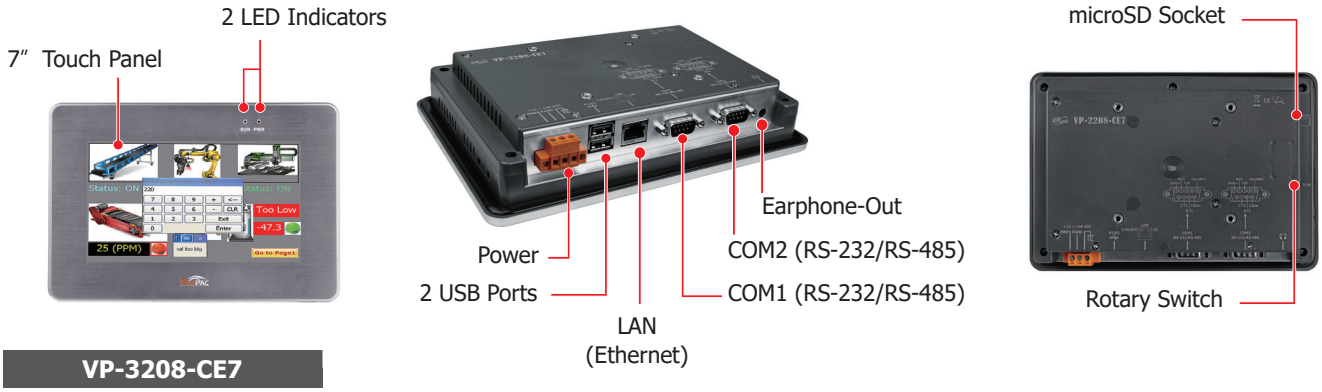
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VP-6208-CE7

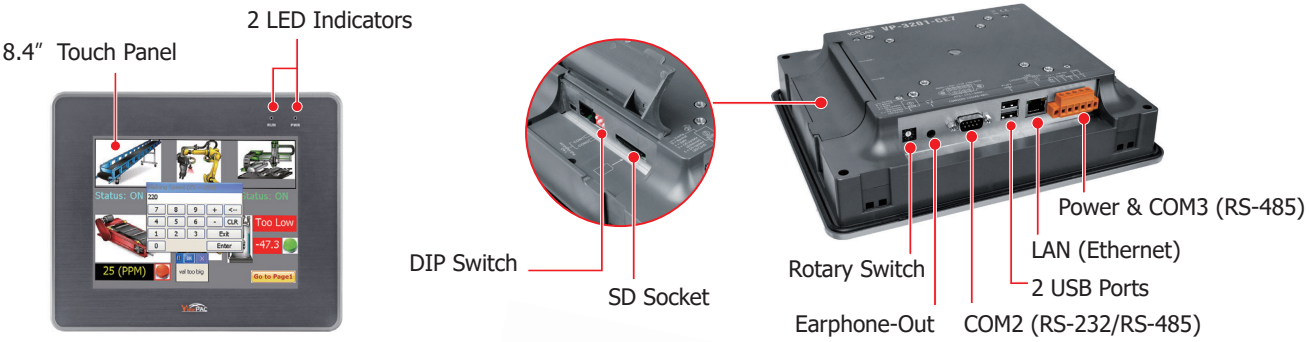


Appearance

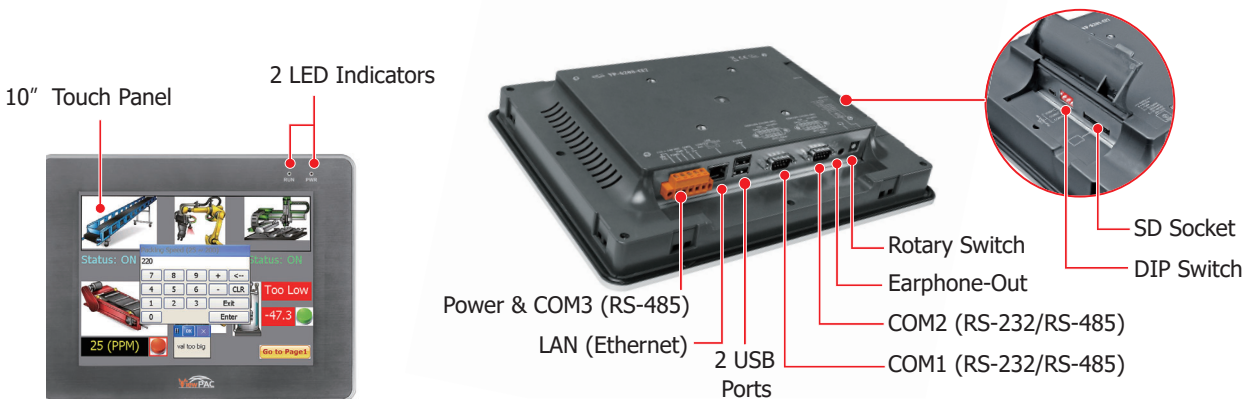
VP-2208-CE7



VP-3208-CE7

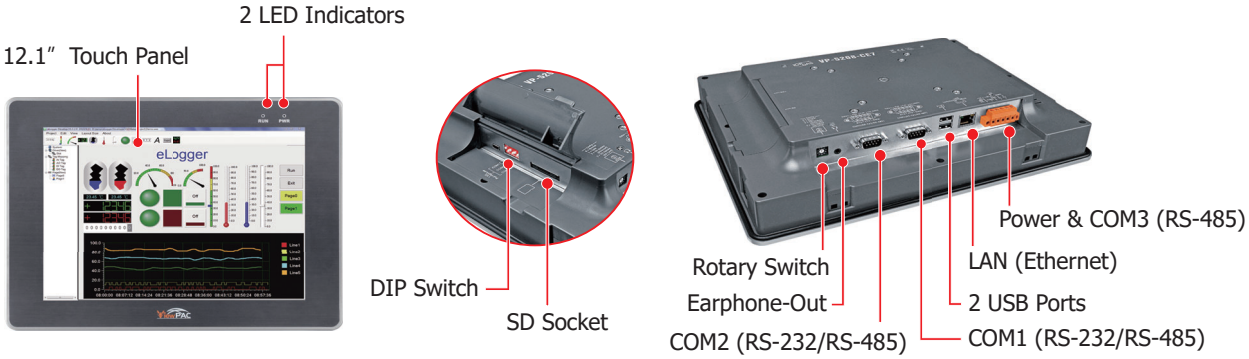


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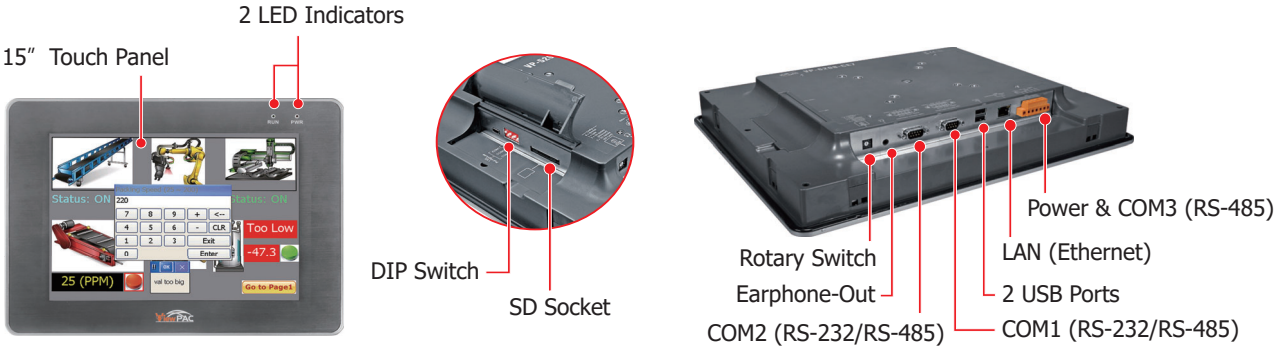


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VP-5208-CE7



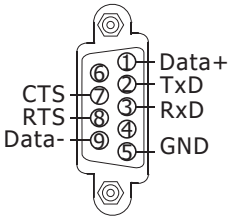
VP-6208-CE7



Pin Assignment

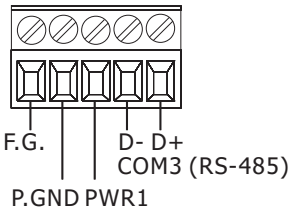
COM1 & COM2: RS-232/RS-485

COM1:	COM2:
VP-2208-CE7	VP-2208-CE7
VP-4208-CE7	VP-3208-CE7
VP-5208-CE7	VP-4208-CE7
VP-6208-CE7	VP-5208-CE7
	VP-6208-CE7



COM3: RS-485 (D+, D-)

COM3:
VP-3208-CE7
VP-4208-CE7
VP-5208-CE7
VP-6208-CE7



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)

Related Products

Win-GRAF Development Software	
Win-GRAF Workbench	Win-GRAF Workbench Software with one USB Dongle
WGW-S-License	Win-GRAF Workbench Software License

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