

Windows Panel PC | ATEX Series | GPC-ATEX-121

ATEX certified Panel PCs adhere to European safety standards for use in explosive environments like oil, gas, and chemicals. With explosion-proof enclosures and high IP ratings, these rugged computers ensure safe operation in potentially hazardous areas. Designed to minimize the risk of sparking or heat, ATEX Panel PCs play a crucial role in enhancing safety and reliability in industries where explosive atmospheres are a concern.

Features

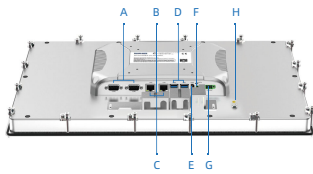
- Passed the ATEX-Ex EU protection certificate.
- Display size : 12.1", 15", 15.6", 18.5", 19", 21.5".
- Front panel/Rear: IP65 / IP65.
- Screen Type: Multi-point capacitive touchscreen.
- OS : WinXP, Win7, Win10/Win11, WinCE, Linux.
- Extendable WIFI/4G.
- DC 9~36V.
- Support desktop type, wall mounting, cantilever and other installation methods



Product Model

Product Size	12.1"
Series	ATEX
Operating System	Windows - Linux
Reference	GPC-ATEX-121

Product Interface



Interface definition:

A: 2 x COM (RS232/RS485)	E: 1 x HDMI
B: Audio output	F: Power switch
C: 2 x LAN	G: DC IN
D: 4 x USB	H: GND

Product Specifications

Screen Parameters

LCD Size	12.1" TFT LCD
Resolution	1024x768
Viewing Angle	75/75/75/75 (L/R/U/D)
Colour	16.7M
Brightness	350 cd/m ²
Contrast ratio	800:1

Touch Screen

Touch screen type	10 point touch projection capacitive touch screen or resistive
Light transmittance	≥85%
Input mode	Handwriting or capacitive pen
Controller communication	USB

Hardware Configuration

	Intel®Celeron® processor J6412	Intel®Core™ i3 processor	Intel®Core™ i5 processor	Intel®Core™ i7 processor
CPU frequency	2.0GHz	2.3GHz	2.8GHz	3.1GHz
Cache	1.5 MB	4 MB	3 MB	4 MB
RAM	4G DDR4 (Optional 8G/16G/32G)	4G DDR4 (Optional 8G/16G/32G)	4G DDR4 (Optional 8G/16G/32G)	8G DDR4 (Optional 16G/32G /64G)
Storage	1x2.5" SATA 3.0 +1 x mSATA; Optional mSATA 128G / 256G / 512G / 1T; Optional 2.5" HDD 512G / 1T / 2T			
WiFi	Extendable WIFI/4G			
Operating system	Windows XP; Windows CE; Windows7/10/11; Linux			

Power parameters

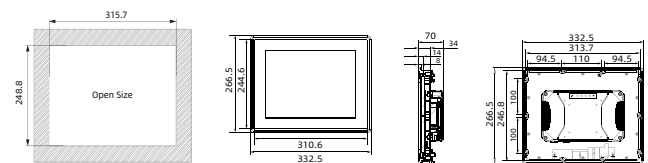
Input voltage	DC 9V~36V	Power	34W
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Certification

ATEX	II 3 G Ex ec IICT4 Gc	II 3 D Ex tc IIIC T135°C Dc	EN 60079-0:2018	EN 60079-7:2015	EN 60079-31:2014
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All product specifications are subject to change without notice

Product size



Physical Characteristics

Overall dimensions	332.5mm x 266.6mm x 70mm
Net Weight	3.6 kg

Interface

EXPANSION SLOT	1x Mini PCIe X1, Support 4G LTE/WIFI/BT with Sim card slot
HDMI	1x HDMI, support HDMI data output, maximum support 1080P
USB	4x USB 3.0
LAN	2x LAN, Intel i210 1000Mbps RJ45with surge protection
AUDIO	1x Audio I/O, Realtek ALC662VD audio controller
COM	2xRS232/RS485with surge protection RS485 support automatic flow control
POWER	1x DC IN

Environment

Working Temperature	0°C to 55°C
Storage temperature	- 20°C to 60°C
Relative humidity	Humidity: 5~95% non-condensing
Vibration protection	IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
Impact protection	IEC 60068-2-27, half sine wave, duration 11ms
EMC	CE/FCC Class A
Waterproof	Front panel reaches IP65 protection level