WPC-W1592B-G

Intel® Core™ i3-10110U | Intel® Core™ i5-10210U | Intel® Core™ i7-10510U

01 Product Overview

Vibration | Shock | Lightning | Dust/Oil | ESD | Wide Temp. | EMI | IP69K

15.6"



The WPC-W1592A-G is a 15.6-inch high-performance clean industrial panel PC designed for high-hygiene wet-wash environments such as food processing, dairy, and pharmaceuticals. It features a full stainless steel chassis with IP67 / IP69K dual protection, withstanding high-temperature high-pressure water jets, foam cleaning, and frequent disinfection. The 15.6-inch widescreen display is ideal for production line status monitoring, equipment interface operation, and multi-window information display, making it widely suitable for human-machine interaction and equipment control deployment in wet-wash areas.

Features

FlexCore | SafeCore | Single | P-CAP | Fanless | 9~36V | Wi-Fi | Bluetooth | USB 2.0 | RS-232 | RS-485 | TPM 2.0

Certifications

CCC | CE | ISO9001 | BIS

Key Features

- ★ Structure: SUS304 full stainless steel chassis, fully sealed design, corrosion-resistant and easy to clean, suitable for high-hygiene wet-wash environments such as food and pharmaceutical.
- ★ Protection: IP67 / IP69K rated, withstands high-temperature high-pressure water jets, foam cleaning, and frequent disinfection.
- ★ Display: 15.6-inch Full HD widescreen industrial display, suitable for production line monitoring, equipment operation, and multi-window information display.
- ★ Touch: P-CAP 10-point capacitive touch, supports glove operation, meeting human-machine interaction needs in clean areas.
- ★ Core: Powered by Intel® 10th Gen Core™ i3 / i5 / i7 processors, balancing high-performance computing, low power consumption, and long-term stable operation.
- ★ Network: Dual Gigabit Ethernet ports ensure high-speed industrial network communication and device interconnection.
- ★ Interfaces: Provides USB, RS-232, RS-485 and other common industrial interfaces to meet on-site device connection needs.
- ★ Expansion: Supports Mini PCIe / M.2 expansion, optional Wi-Fi, Bluetooth, 4G / 5G communication modules for different networking needs.
- ★ Architecture: Based on FlexCore™ modular design, balancing interface expansion, configuration reuse, and project customization.
- ★ Reliability: Fanless cooling design with integrated CESIPC SafeCore™ technology, enhancing system stability under abnormal power loss and long-term operation.

02 Product Images





03 I/O Interface





04 Technical Specifications

- Touch & Display

Parameter	Specification
Display Size	15.6" (16:9)
Display Type	FHD TFT LCD
Resolution	1920 × 1080
Colors	16.2M
Brightness	350 cd/m²
Contrast Ratio	800:1
Backlight Lifetime	50,000 hrs
Touch Method	Projected capacitive touch (P-CAP), 10-point
Touch Protection	IP67 (whole unit)

Core Hardware

Parameter	Intel® Core™ i3-10110U	Intel® Core™ i5-10210U	Intel® Core™ i7-10510U
Processor	i3-10110U	i5-10210U	i7-10510U
Cores	2	4	4
Threads	4	8	8
Frequency	2.1~4.1 GHz	1.6~4.2 GHz	1.8~4.9 GHz
Cache	4MB	6MB	8MB
TDP	15W		
Graphics	Intel UHD Graphics 620		
Memory	4~32GB DDR4		
Storage	1× M.2 SSD + 1× M.2 NVMe		

I/O Interfaces

Parameter	Specification
USB 2.0	M12 connector, 2 × USB 2.0
RS-232	M12 connector, 2 × RS232
RS-485	None (customizable)
Gigabit Ethernet	M12 connector, 2 × LAN
Audio	None
Wi-Fi (optional)	Dual-band 2.4G/5G wireless card
4G/5G (optional)	/

Power Input

Parameter	Specification
Power Connector	M12 connector, supports 9~36V DC wide voltage input
ATX Switch	1× ATX power switch
Boot Mode	AT/ATX mode switch (built-in)

Product Attributes

Parameter	Specification
Dimensions	416.5 (W) × 265(D) × 62 (H) mm
Weight	12.2 KG net weight
Chassis Material	304 stainless steel
Mechanical Structure	Sheet metal structure
Mounting	Wall mount / Desktop stand / VESA 100×100 mm
Reset Switch	1× reset switch
TPM	TPM 2.0
Watchdog	Hardware watchdog supported
MTBF	60,000 hrs

Operating Environment

Parameter	Specification
Operating Temp.	0~60℃ (wide temp. -40~80℃ optional)
Storage Temp.	-10~70℃ (wide temp. -40~80℃ optional)
Humidity	10%~90%, non-condensing
EMC	CE, FCC (EN 55032 & EN 55035)
EMC Harmonics	EN IEC 61000-3-2

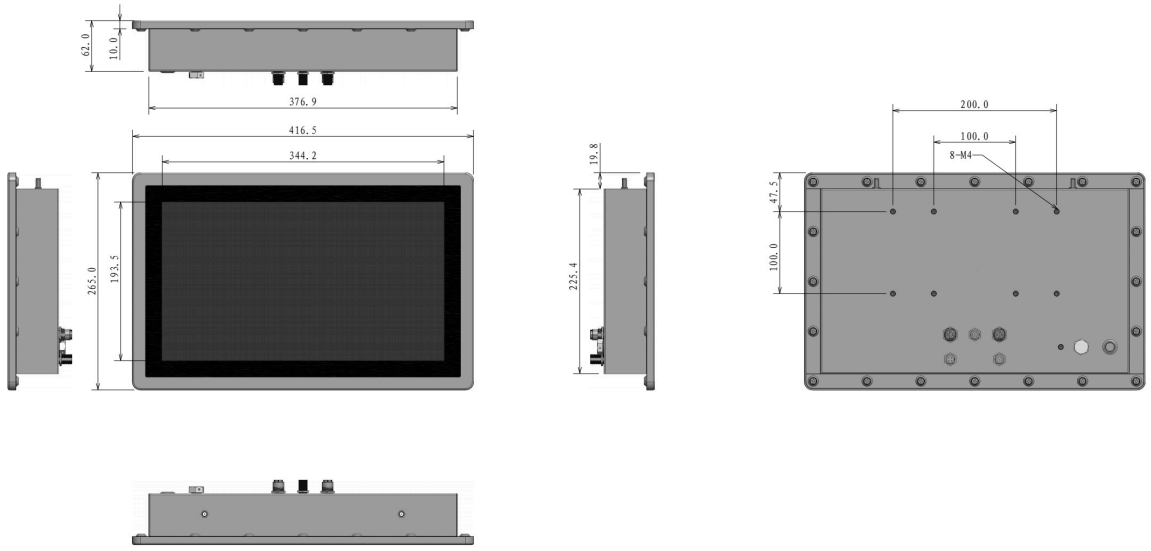
Operating System

Parameter	Specification
Windows	Windows 10 / Windows 11
Linux	Ubuntu 16.04 / 18.04 / 20.04 / 22.04

Certifications & Compliance

Parameter	Specification
Factory Cert.	ISO9001: 2015
BIOS Customization	BIOS / Boot LOGO / OEM

05 Mechanical Dimensions



06 Applications



Cleanroom



Dairy Production Line



Biopharmaceutical



Food Processing

07 Ordering Information

NO.	Model	Part No.	Processor	Memory	Storage
1	WPC-W1592B-G	C5.02.04.283	Intel® Core™ i7-10510U	16GB DDR4	SSD 256GB

※ Note: Due to market fluctuations, key components such as CPU models, memory, and hard drives may change. Please consult our sales team for details.

※ Specifications subject to change without notice. Data measured under standard test conditions.
For customization or support, contact CESIPC: 0755-85286060 · sales@cesipc.com · www.cesipc.com
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