# LEGO MODE TECHNOLOGY

# WPC-W1521A-G

**CesIPC®**
Build Your IPC Like LEGO

Windows® Embedded

15.6inch CleanOps™ IP69K Stainless Steel Panel PC

## ► Introduction

WPC-W1521A-G is a 15.6-inch all-stainless steel panel PC with IP67/IP69K protection, designed for small workstations and high-performance embedded applications. Powered by an Intel® 12th gen Core™ processor, it offers strong computing power and energy efficiency. With five-wire resistive touch, it operates reliably in wet, oily, or gloved conditions. It supports gigabit Ethernet, wide-voltage DC input, and integrates SafeCore™ system protection, making it a high-performance industrial terminal.

## ► Features



USB 2.0 | RS-232 | RS-485 | OS | Wi-Fi | LAN | IP67 | IP69K

**SUS 304** | **IP67/IP69K**

- SUS304 unibody design withstands acid/alkali wash and high-pressure cleaning, IP67/IP69K rated.
- Powered by 12th Gen Intel® Core™ processors (i7/i5/i3), delivering high performance with low power.
- 15.6inch 16:9 TFT LCD, 1920×1080 (FHD) full-HD display.
- Resistive touch panel supports wet-hand operation with stronger anti-interference for harsh environments.
- LEGO MODE™ modular design, delivering excellent scalability and high maintainability.
- Dual Gigabit Ethernet ports ensure reliable, high-speed industrial network communication.
- Dual-band 2.4G/5G Wi-Fi with Bluetooth enables reliable multi-device wireless connectivity.
- Equipped with 2 x USB and 2 x COM ports for flexible peripheral connectivity.
- Supports wide-range 9–36V DC input for complex industrial power environments.
- Hardware-level auto power recovery ensures automatic restart for unmanned operation scenarios.
- Supports 1× M.2 wireless module for Wi-Fi, Bluetooth, 4G/5G, or USB expansion.
- Supports TPM 2.0 for hardware-based security, ensuring system integrity and trusted operation.
- CESIPC SafeCore™ enhances power-loss resilience, ensuring system recoverability and long-term stability.
- Supports Windows 10/11, CentOS, Ubuntu and other mainstream operating systems.

## ► Specifications

### System Core

| CPU / Model | Cores | Threads | Base | Turbo | Cache | TDP | Graphics | Memory / Storage |
|---|---|---|---|---|---|---|---|---|
| Intel® Core™ i3-1215U | 6 (2P+4E) | 8 | 1.2 GHz | 4.4 GHz | 10MB | 15W | UHD (48 EUs) | DDR5 8–32GB / 1× M.2 NVMe |
| Intel® Core™ i5-1235U | 10 (2P+8E) | 12 | 1.3 GHz | 4.4 GHz | 12MB | 15W | Iris Xe (80 EUs) | DDR5 8–32GB / 1× M.2 NVMe |
| Intel® Core™ i7-1255U | 10 (2P+8E) | 12 | 1.2 GHz | 4.7 GHz | 12MB | 15W | Iris Xe (96 EUs) | DDR5 16–32GB / 1× M.2 NVMe |

## I/O

| | |
|---|---|
| DC Input | 1 × 4-pin DC input (aviation connector), 9-36V wide-range |
| USB | 2 x USB 2.0 with 2 x Type-A aviation connector |
| Serial Ports | 2 x RS232 (optional RS485/422) with 1 x 10-pin aviation connector |
| Ethernet Port | 2 x 10/100/1000 Mbps ethernet ports with 2 x RJ45 aviation connectors |

## Wireless Communication

| | |
|---|---|
| Wi-Fi | Intel N6235，300Mbps, 802.11a/b/g/n，2.4G / 5G |
| Wireless Network | 4G LTE module (optional) |

## Mechanical

| | |
|---|---|
| Dimension | 416.5 (W) × 265(D) × 60.5 (H) mm |
| Weight | 7 KG N.W. |
| Material | Rugged stainless steel 304 casing |
| Installation | VESA Mount |

## LCD & Touch

| | |
|---|---|
| Touchscreen Type | Resistive 5-wire |
| LCD Size | 15.6inch TFT LCD |
| Resolution | 1920x1080 / 16:9 |
| Brightnesss (cd/$m^2$) | 300 |
| Contrast Ratio | 800:1 |
| Backlight LED Life Time | 50,000 hrs (LED Backlight) |

## Environmental

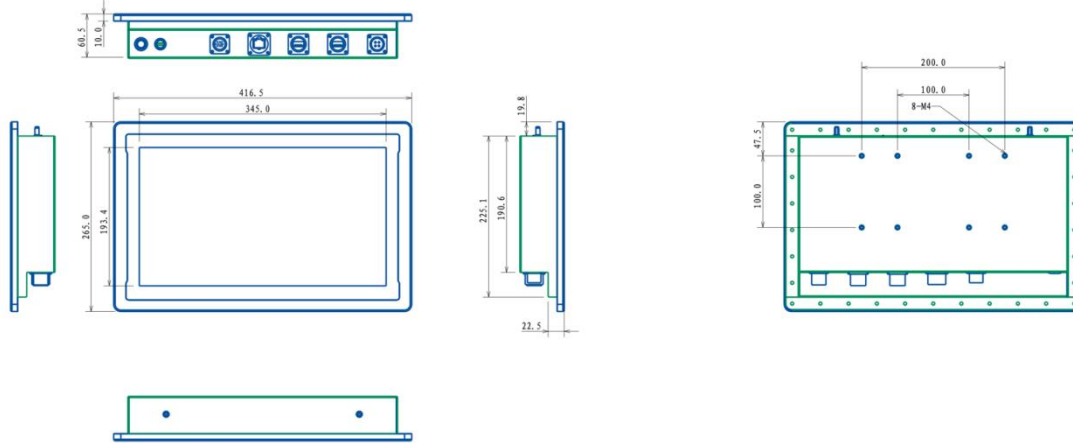| | |
|---|---|
| Protection | Whole IP67 / IP69K level compliant |
| Operating Temperature | -10℃～60℃（14～140℉）(extend temperature optional) |
| Storage Temperature | -20℃～70℃（-4～158℉） |
| Relative Humidity | 5% ~ 95% RH, support high-humidity environments, non-condensing |
| EMC | CE, FCC (According to EN 55032 & EN 55035)EN IEC 61000-3-2 |
| Certification | ISO9001:2015; CCC; CE; BIS |
| ODM | BIOS / Boot on LOGO / OEM |
| MTBF | MTBF ≥ 60,000 Hours |

## OS

| | |
|---|---|
| Windows | Windows 10 / Windows 11 |
| Linux | Ubuntu 16.04 / 18.04 / 20.04 / 22.04 |

# WPC-W1521A-G

Windows® Embedded

15.6inch CleanOps™ IP69K Stainless Steel Panel PC

## ► Dimensions



## ► Product Images



## ► I/O



On/Off    COM1    LAN    USB2    DC IN
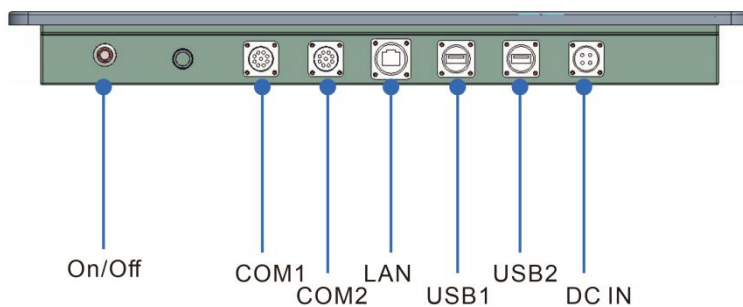          COM2    USB1

# WPC-W1521A-G

15.6inch CleanOps™ IP69K Stainless Steel Panel PC

## ► Applications

Ideal for hygienic processing, food & beverage, pharmaceutical cleanrooms, and washdown environments.


Cleanroom & Test Chamber


Dairy & Beverage Production Line


Biopharmaceutical Cleanroom


Slaughtering & Fresh Processing


Packaging & Vision Inspection


Central Kitchen

## ► Additional Size Options

G-Series offers multiple screen sizes for various hygiene-grade applications


G-Series 10inch IP69K Panel


G-Series 15inch IP69K Panel


G-Series 21.5inch IP69K Panel

## ► About US

CESIPC (Cloud Embedded Technology Co., Ltd.) was founded in 2009 and is headquartered in Shenzhen. With in-house sheet metal and SMT factories, CESIPC specialize in delivering high-performance, reliable, and customizable industrial computing solutions, including in industrial panel PC, fanless industrial PC, IP67/IP69K panel PC, rugged tablet PC, portable laptop and embedded systems.

Guided by the principles of "Crafting Efficient, Sustainable IPC Solutions", CESIPC is renowned worldwide for its LEGO-Industrial Computers.

## ► Contact Us

- Office Phone: +86 755-8528-6060
- Mobile Number: +86 138-2373-2621 (Mr. Fan)
- Procurement Email: wzfan@cesipc.com
- Business Cooperation: sales@cesipc.com
- Postal Code: 518107
- Company Address: 8th Floor, Block 1B, Shangzhi Technology Park, Guangming Avenue, Guangming District, Shenzhen, Guangdong, China