

## ► Introduction

WPC-W15-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® Celeron J1900 to Gen 12 Core-i processor, it offers strong computing power and energy efficiency. With capacitive touch, it operates reliably with precise touch sensitivity and multi-touch support. It supports gigabit Ethernet, wide-voltage DC input, and integrates SafeCore™ system protection, making it a high-performance industrial terminal.

## ► Features



- SUS304 unibody design withstands acid/alkali wash and high-pressure cleaning, IP67/IP69K rated.
- Powered by the Intel® Celeron® J1900 to Gen 12 Core-i processor, delivering stable, low-power, and cost-efficient performance.
- 15.6inch 16:9 TFT LCD, 1920×1080 (FHD) full-HD resolution.
- P-CAP 10-point projected capacitive touch, fast response and high precision.
- LEGO MODE™ modular design, delivering excellent scalability and high maintainability.
- 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.
- CESIPC SafeCore™ enhances power-loss resilience, ensuring system recoverability and long-term stability.
- Supports Windows 10/11, CentOS, Ubuntu and other mainstream operating systems.

SUS 304

IP67/IP69K

## ► Specifications

### System Core

| CPU / Model            | Cores      | Threads | Base | Turbo | Cache | TDP | Graphics         | Memory / Storage              |
|------------------------|------------|---------|------|-------|-------|-----|------------------|-------------------------------|
| Intel® Celeron J1900   | 4          | 4       | 2.0  | 2.42  | 2MB   | 10W | Intel HD         | DDR3L 4–8GB / 1× mSATA SSD    |
| Intel® Celeron J6412   | 4          | 4       | 2.0  | 2.60  | 1.5MB | 10W | Intel UHD(16EUs) | DDR4 4–32GB / 1× mSATA SSD    |
| Intel® Core™ i3-10110U | 2          | 4       | 2.1  | 4.1   | 4MB   | 15W | UHD 620          | DDR4 4–32GB / 1× M.2 NVME SSD |
| Intel® Core™ i5-10210U | 4          | 8       | 1.6  | 4.2   | 6MB   | 15W | UHD 620          | DDR4 4–32GB / 1× M.2 NVME SSD |
| Intel® Core™ i7-10510U | 4          | 8       | 1.8  | 4.9   | 8MB   | 15W | UHD 620          | DDR4 4–32GB / 1× M.2 NVME SSD |
| Intel® Core™ i3-1215U  | 6 (2P+4E)  | 8       | 1.2  | 4.4   | 10MB  | 15W | UHD (48EUs)      | DDR5 4–32GB / 1× M.2 NVME SSD |
| Intel® Core™ i5-1235U  | 10 (2P+8E) | 12      | 1.3  | 4.4   | 12MB  | 15W | Iris Xe (80 EUs) | DDR5 4–32GB / 1× M.2 NVME SSD |
| Intel® Core™ i7-1255U  | 10 (2P+8E) | 12      | 1.2  | 4.7   | 12MB  | 15W | Iris Xe (96 EUs) | DDR5 4–32GB / 1× M.2 NVME SSD |

## I/O

|               |                                                                       |
|---------------|-----------------------------------------------------------------------|
| DC Input      | 1 × 4-pin DC input (aviation connector), 9-36V wide-range             |
| USB           | 2 × USB 2.0 with 2 × Type-A aviation connector                        |
| Serial Ports  | 2 × RS232 (optional RS485/422) with 1 × 10-pin aviation connector     |
| Ethernet Port | 2 × 10/100/1000 Mbps ethernet ports with 2 × 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, 100 x 100mm, 100 x 200mm |

## LCD & Touch

|                                 |                                              |
|---------------------------------|----------------------------------------------|
| Touchscreen Type                | P-CAP 1-10 points projected capacitive touch |
| LCD Size                        | 15.6inch TFT LCD                             |
| Resolution                      | 1920x1080 / 16:9                             |
| Brightness (cd/m <sup>2</sup> ) | 300                                          |
| Contrast Ratio                  | 800:1                                        |
| Backlight LED Life Time         | 50,000 hrs (LED Backlight)                   |

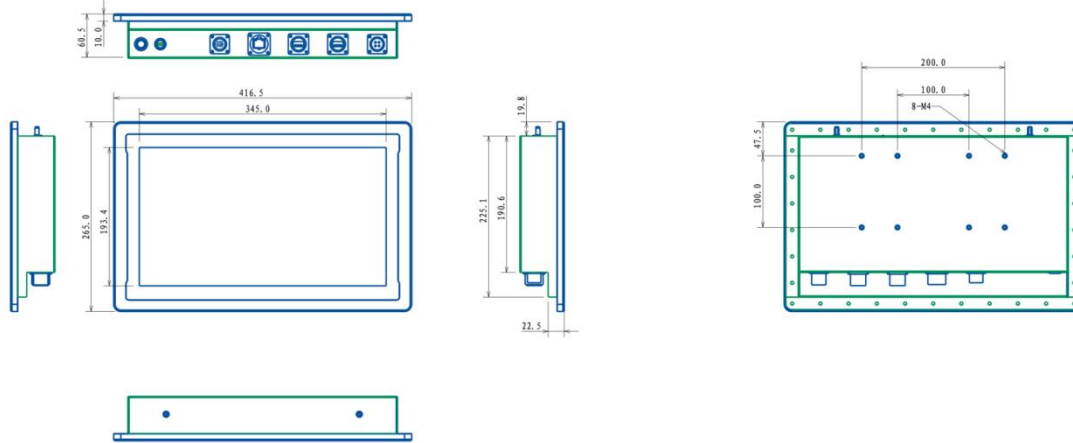
## Environmental

|                       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Protection            | Whole IP67 / IP69K level compliant                              |
| Operating Temperature | -10°C ~ 60°C ( 14 ~ 140°F ) (extend temperature optional)       |
| Storage Temperature   | -20°C ~ 70°C ( -4 ~ 158°F )                                     |
| 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      |
| Certifications        | ISO9001:2015; CCC; CE; BIS                                      |
| ODM                   | BIOS / Boot on LOGO / OEM                                       |
| MTBF                  | MTBF ≥ 60,000 Hours                                             |

## OS

|         |                                      |
|---------|--------------------------------------|
| Windows | Windows 11 / Windows 10 / Windows 7  |
| Linux   | Ubuntu 16.04 / 18.04 / 20.04 / 22.04 |

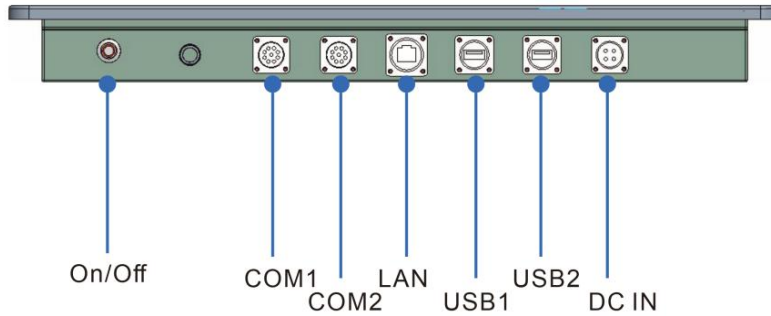
## ► Dimensions



## ► Product Images



## ► I/O



## ► 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

## ► Accessories



Serial Cable: 10-pin waterproof circular connector to DB9 cable



USB: waterproof circular connector to USB Type-A cable



LAN: waterproof circular connector to LAN RJ45 cable



Power adapter: Waterproof power adapter



Antenna: SMA antenna

## ► Ordering Information

| Model        | CPU                 | Touch     | Material | IP Grade | I/O                                |
|--------------|---------------------|-----------|----------|----------|------------------------------------|
| WPC-W1561A-G | Intel Celeron J1900 | Resistive | SS304    | IP69K    | 2 × USB, 2 × GigaLAN,<br>2 × RS232 |
| WPC-W1571A-G | Intel Celeron J6412 | Resistive | SS304    | IP69K    | 2 × USB, 2 × GigaLAN,<br>2 × RS232 |
| WPC-W1591A-G | Intel Gen 10 Core-i | Resistive | SS304    | IP69K    | 2 × USB, 2 × GigaLAN,<br>2 × RS232 |
| WPC-W1521A-G | Intel Gen 12 Core-i | Resistive | SS304    | IP69K    | 2 × USB, 2 × GigaLAN,<br>2 × RS232 |
| WPC-W1562A-G | Intel Celeron J1900 | P-Cap     | SS304    | IP69K    | 2 × USB, 2 × GigaLAN,<br>2 × RS232 |
| WPC-W1572A-G | Intel Celeron J6412 | P-Cap     | SS304    | IP69K    | 2 × USB, 2 × GigaLAN,<br>2 × RS232 |
| WPC-W1592A-G | Intel Gen 10 Core-i | P-Cap     | SS304    | IP69K    | 2 × USB, 2 × GigaLAN,<br>2 × RS232 |
| WPC-W1522A-G | Intel Gen 12 Core-i | P-Cap     | SS304    | IP69K    | 2 × USB, 2 × GigaLAN,<br>2 × RS232 |