

# W22IM3S-67B2-P(HB)

21.5" ARM A53 G-WIN Full IP67 P-CAP Panel PC



CE

FC



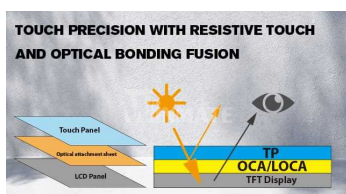
## KEY FEATURES

- ARM A53 Quad Core 2.0GHz
- High Quality 21.5" Panel, 1920 x 1080 resolution, 1000 nits
- P-cap multi touch screen Optical Bonding with Panel to increase the clarity and transparency
- Optional Anti-Reflective Protection Glass Optical Bonding with Panel
- Dust/ Water proof design with VESA mount Full IP67 Panel PC
- Aluminum Die-Casting Housing with Anti-Corrosion Treatments
- Build in ambient Light sensor
- -10 to 55°C wide operating temperature
- Wide Range 9 to 36V DC Input with isolation. Optional for Ignition On/Off delay

## INTRODUCTION

Winmate G-WIN IP67 Panel PC Series is designed to excel in demanding environments, offering a versatile range of display sizes from 7" to 21.5" and supporting both Windows and Android operating systems. Engineered for durability and performance, these Panel PCs feature advanced PCAP touch technology, optical bonding for enhanced visibility, and rugged aluminum housing. With a full IP67 rating for complete protection against water and dust, they are ideal for industrial and outdoor applications. The series also supports VESA mount solutions for flexible installation and offers optional high-brightness displays for optimal readability in bright conditions.

## OVERVIEW



### Touch precision with Resistive Touch and Optical Bonding fusion

Winmate G-Win IP67 Series Panel PCs stand out by seamlessly integrating flat 5 wire resistive touch technology with optical bonding to reduce reflective glare, resulting in a cutting-edge touchscreen solution that not only ensures ruggedness and precision but also offers superior visual clarity. This innovative fusion caters perfectly to diverse environments such as outdoor kiosks, industrial control panels, and medical instruments, where reliability, durability, and top-notch display visibility are paramount.

### Anti-Corrosion Aluminum Die-Casting Back Cover

Winmate G-Win IP67 Series has anti-corrosion aluminum die-casting back cover, designed specifically for the rigorous demands of the industrial sector. Crafted from high-quality aluminum, this back cover provides exceptional durability and resistance against corrosion, ensuring longevity even in harsh environments. Its robust construction guarantees reliable protection for sensitive components housed within, making it an ideal choice for industrial applications where reliability and longevity are paramount.





### Adaptable Across Temperature Extremes

The G-Win IP67 Series panel PC is designed to function within a broad temperature range from -10°C to 55°C, making it suitable for use in outdoor or hazardous environments, regardless of extreme hot or cold conditions.

### Convenient Mounting Installation

The industrial display offers versatile mounting options suitable for both wall and desk installations, facilitating straightforward setup and adaptability across diverse industries to meet specific needs.



### IP67 Waterproof Design

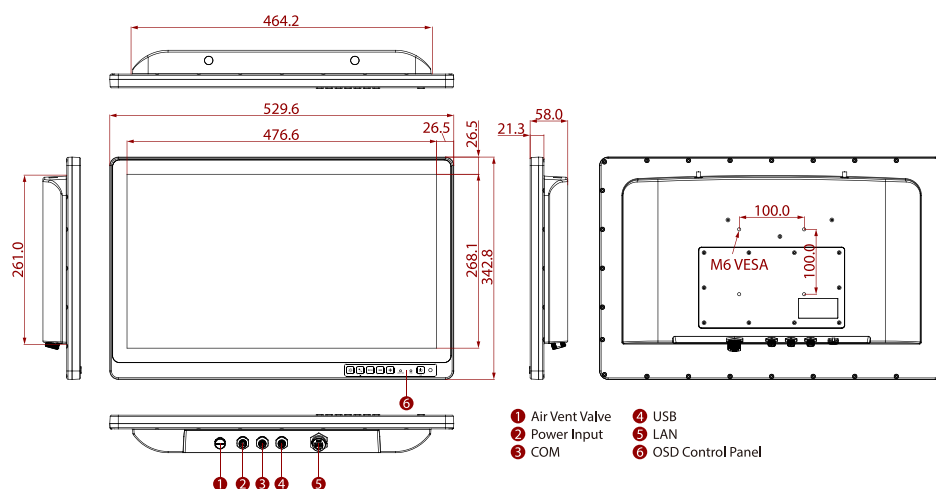
The G-WIN GC series HMI panel PC is equipped with an IP67 front rating, ensuring durability against water and dust in challenging environments. This protective feature shields it from water splashes, dust, and other contaminants, preserving operational integrity. Operators can confidently deploy it in demanding industrial conditions, without worrying about moisture or dust-related damage, thus enhancing reliability and longevity for critical operations.

## SPECIFICATIONS

| System Specification |                                                                                                                                                                                                                                                                                                                                           |                       |                                                                                                                                |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Processor            | ARM A53 (Quad Core 2.0GHz)                                                                                                                                                                                                                                                                                                                | Memory                | 4GB LPDDR4                                                                                                                     |
| Storage              | eMMC: Onboard 32 GB                                                                                                                                                                                                                                                                                                                       | Operating System      | Android 11 (Upgradeable to Android 13)<br>Linux Yocto 5.10.104 with QT 5.15 (Optional)<br>Linux Ubuntu Server 22.04 (Optional) |
| WLAN                 | Support (Optional)                                                                                                                                                                                                                                                                                                                        | BT                    | Support (Optional)                                                                                                             |
| Display              |                                                                                                                                                                                                                                                                                                                                           |                       |                                                                                                                                |
| Resolution           | 1920x1080                                                                                                                                                                                                                                                                                                                                 | Size                  | 21.5 inches                                                                                                                    |
| Contrast Ratio       | 1000:1                                                                                                                                                                                                                                                                                                                                    | Panel Brightness      | 1000.0 nits                                                                                                                    |
| View Angles          | 89,89,89,89                                                                                                                                                                                                                                                                                                                               | Type                  | Projected Capacitive Multi Touch Screen Bonding With Panel<br>Ture Flat Protection Glass Bonding With Panel (Optional)         |
| Mechanical           |                                                                                                                                                                                                                                                                                                                                           |                       |                                                                                                                                |
| Dimension            | 529.6 x 342.8 x 58 mm                                                                                                                                                                                                                                                                                                                     | Weight                | 8.67 kg                                                                                                                        |
| Mounting             | VESA mount                                                                                                                                                                                                                                                                                                                                | Enclosure             | Aluminum Housing<br>Pre finish: Surtec 650, Type II, Class 3 Coating:<br>Polyester powder coating                              |
| Cooling System       | Fanless Design                                                                                                                                                                                                                                                                                                                            |                       |                                                                                                                                |
| Environment          |                                                                                                                                                                                                                                                                                                                                           |                       |                                                                                                                                |
| Operating Humidity   | 10% to 90% RH, Non-Condensing                                                                                                                                                                                                                                                                                                             | Operating Temperature | -10°C to 55°C<br>-40°C to 70°C (with intelligent heater)                                                                       |
| Storage Temperature  | -30°C to 70°C                                                                                                                                                                                                                                                                                                                             | Shock                 | MIL-STD-810G Method 516.6 Procedure I                                                                                          |
| Vibration            | MIL-STD-810G Method 514.6 Procedure I                                                                                                                                                                                                                                                                                                     | IP rating             | IP67                                                                                                                           |
| Certification        |                                                                                                                                                                                                                                                                                                                                           |                       |                                                                                                                                |
| Certification        | CE, FCC                                                                                                                                                                                                                                                                                                                                   |                       |                                                                                                                                |
| IO Ports             |                                                                                                                                                                                                                                                                                                                                           |                       |                                                                                                                                |
| Power Input          | 1 x M12 waterproof connector for 9~36V DC                                                                                                                                                                                                                                                                                                 | USB Port              | 1 x M12 waterproof connector for 2 x USB2.0                                                                                    |
| Serial Port          | 1 x M12 waterproof connector for RS232                                                                                                                                                                                                                                                                                                    | LAN                   | 1 x waterproof Giga LAN RJ45 connector                                                                                         |
| Indicator            | 1 x LED Indicator for power<br>1 x LED Indicator for storage                                                                                                                                                                                                                                                                              |                       |                                                                                                                                |
| Control              |                                                                                                                                                                                                                                                                                                                                           |                       |                                                                                                                                |
| Button               | 1 x "Power" key to power on the device.<br>1 x "+" key to increase screen brightness.<br>1 x "-" key to decrease screen brightness.<br>1 x "Menu" key can Automatically or manually adjusts brightness of the display screen<br>1 x Day / Night Mode button<br>1 x LED indicator brightness adjustment button<br>1 x Ambient Light sensor |                       |                                                                                                                                |
| Accessory            |                                                                                                                                                                                                                                                                                                                                           |                       |                                                                                                                                |
| Accessory            | External open wire Power cable with waterproof connector<br>External USB cable with waterproof connector<br>External COM cable with waterproof connector<br>External LAN cable with waterproof connector<br>Waterproof caps                                                                                                               | Optional Accessory    | 100~240V AC to DC 120W Adapter with power cord (Optional)                                                                      |

RJ45 female-female converter  
USB Type A converter  
VESA screws

## DIMENSIONS UNIT:MM



## NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Weight of the device varies by configuration.
3. Please contact our sales representative if you need further product information.
4. All specifications are subject to change without prior notice.
5. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.