

# W12IM3S-GCB1

## 12.3" ARM A53 G-WIN GC-Series Front IP65 PCAP Panel PC



### KEY FEATURES

- 12.3" 1920 x 720 panel with projected capacitive multitouch screen
- ARM A53 Quad Core 2.0GHz CPU
- Front IP65 for protection against water and dust
- A true flat, easy-to-clean front surface with edge-to-edge design
- Support Android or Linux operating system



### OVERVIEW



#### Industrial Panel PC Supporting Android and Linux Operating Systems

Industrial panel PCs are versatile computing solutions that support Android or Linux operating systems. This flexibility allows users to choose the operating system that best suits their specific requirements and application needs. Android provides a familiar interface, extensive app support, and ease of use, making it suitable for interactive applications and multimedia purposes. Linux, on the other hand, offers robust customization options, stability, and reliability, making it ideal for industrial control, automation, and monitoring applications. With support for Android or Linux, Industrial Panel PCs offer a wide range of possibilities for various industrial settings, enabling efficient and tailored computing solutions.



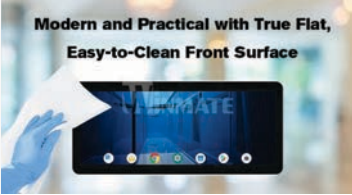
#### Front IP65 Water and Dust Proof for Harsh Environments

The Industrial HMI panel PC is equipped with a front IP65 water and dust-proof rating, making it highly resilient in harsh environments. This level of protection ensures that the HMI is safeguarded against water splashes, dust particles, and other contaminants that could potentially disrupt its operation. With the front IP65 rating, operators can confidently use the HMI in demanding industrial settings without concerns about damage caused by moisture or dust. This feature enhances the reliability and longevity of the HMI, allowing it to effectively support critical industrial processes with optimal performance and durability.



#### Efficient Performance with ARM A53 Quad Core 2.0GHz CPU

The ARM A53 Quad Core 2.0GHz CPU is a processing unit commonly used in various electronic devices, including smartphones, tablets, and embedded systems. The A53 architecture is part of the ARMv8-A instruction set, designed to offer a balance between performance and power efficiency. With its quad-core configuration, the CPU features four independent processing cores that can handle multiple tasks simultaneously, providing improved multitasking capabilities. Each core operates at a clock speed of 2.0GHz, which determines the rate at which instructions are executed.



#### Modern and Practical with True Flat, Easy-to-Clean Front Surface

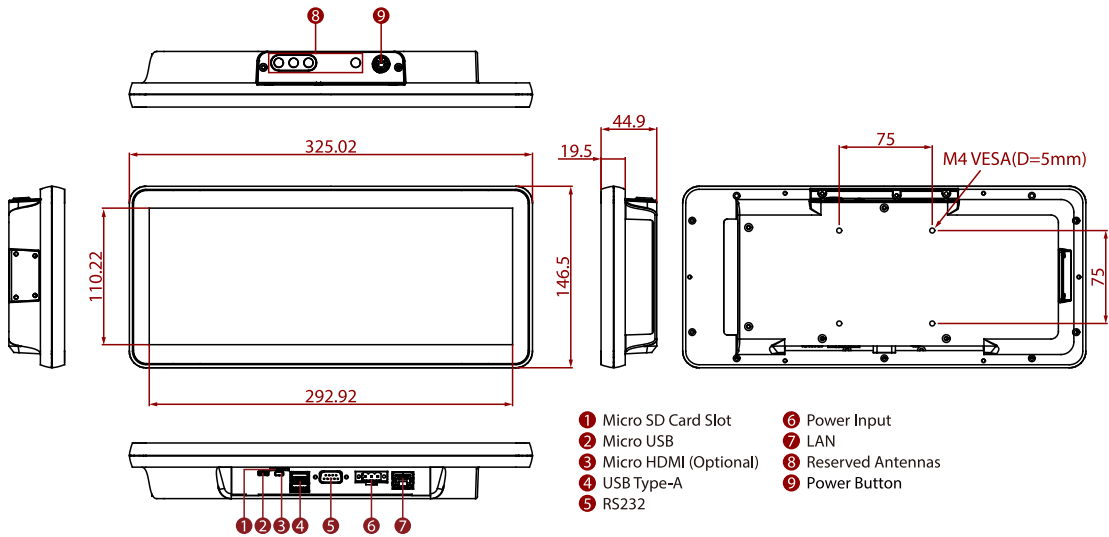
The Industrial Panel PC features a modern design with a true flat, easy-to-clean front surface and an edge-to-edge display. The true flat design eliminates any bezels or gaps, providing a sleek and seamless look. The edge-to-edge display maximizes the screen area, offering a larger viewing area and an immersive visual experience. This design not only enhances the aesthetic appeal of the Panel PC but also facilitates easy cleaning, as there are no edges or crevices for dirt or liquids to accumulate. The Industrial Panel PC's stylish design and practical features make it an ideal choice for industrial environments where cleanliness and visual aesthetics are important considerations.

### SPECIFICATIONS

Display			
Touch / Glass	Projected Capacitive Multi Touch Screen	Resolution	1920x720
Size	12.3 inches	Contrast Ratio	1000:1
Panel Brightness	1000.0 nits	View Angles	88,88,88,88
Active Area	292.92×110.22 mm		
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) Linux Yocto 5.10.104 with QT 5.15 (Optional) Linux Ubuntu Server 22.04 (Optional)
WLAN	Support (Optional)	BT	Support (Optional)

Mechanical			
Dimension	325.02 x 146.5 x 45 mm	Mounting	VESA Mount
Cooling System	Fanless Design		
IO Ports			
USB Port	2 x USB 2.0 Type A 1 x Micro USB 2.0 OTG	Serial Port	1 x RS232/422/485 (Default RS232)
SD Card Slot	1 x Micro SD card slot (Max to 32GB)	Video	1 x Micro HDMI Output (Optional)
Audio	2 x Speaker (Optional)	LAN	1 x LAN 10/100/1000 Mbps
Environment			
Operating Humidity	10% to 90% RH, Non-Condensing	Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 60°C	Shock	MIL-STD-810H Method 516.8 Procedure I
Vibration	MIL-STD-810H Method 514.8 Procedure I	IP rating	Front IP65
Certification			
Certification	CE, FCC		
Control			
Button	1 x Power Button (Optional)		
Power			
Power Rating	12V DC with Terminal Block	Adapter	12V 50W
Accessory			
Accessory	Quick Start Guide(Hardcopy) AC Adapter 12V/50W Power Cord 3 Pin Terminal Block to DC Jack		

DIMENSIONS    UNIT:MM



NOTE

- 1.This is a simplified drawing and some components are not marked in detail.
- 2.Please contact our sales representative if you need further product information.
- 3.All specifications are subject to change without prior notice.
- 4.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.