

R12IAD3S-GCM2(HB)

12.1" Intel® Core™ i5-1235U Standalone Panel PC HMI



KEY FEATURES

- 12.1" 1024 x 768 with P-CAP touchscreen
- 12th Gen Intel® Core™ i5-1235U processor
- Fanless cooling system and ultra-low power consumption
- Front IP65 for protection against water and dust
- A true flat, easy-to-clean front surface with edge-to-edge design
- Plenty of I/O, including 2 x 2.5 Giga LAN, 1 x COM, 2 x USB 3.2 Gen2x1

INTRODUCTION

Winmate G-WIN GC Series Panel PC Series offers advanced performance and flexibility, with sizes ranging from 7" to 24" and support for various operating systems, including Windows and Android. Designed with a fanless cooling system and ultra-low power consumption, these panel PCs feature a front IP65-rated edge-to-edge flat design for water and dust resistance and easy cleaning. With versatile I/O options, including USB, HDMI, and RS232/422/485, these robust devices are ideal for industrial automation, kiosks, and control systems, ensuring reliability in harsh environments.

OVERVIEW



Scratch-Resistant Multi-Touch Capability

Featuring a glass cover lens, the GC Series Panel PC offers exceptional scratch resistance. Its P-Cap Touch capability supports up to four touch points, ensuring smoother interaction and simplifying device operation, significantly improving the overall user experience.

Silent & Efficient Cooling Solution

The Winmate GC Series utilizes fanless cooling technology, employing heat sinks and vapor chambers for efficient temperature regulation without noisy fans, ideal for panel PCs and industrial settings, ensuring high performance with minimal noise. The Winmate GC Series utilizes fanless cooling technology, employing heat sinks and vapor chambers for efficient temperature regulation without noisy fans, ideal for panel PCs and industrial settings, ensuring high performance with minimal noise.



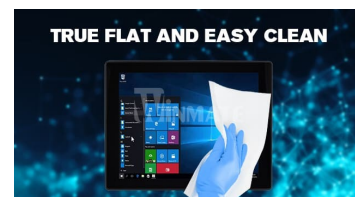


Full Water Resistance

The G-WIN GC series panel PC boasts a front IP65 rating, ensuring robustness against water and dust in harsh environments. This shielding protects it from water splashes, dust, and other contaminants, preserving operational integrity. Operators can confidently deploy this HMI in challenging industrial conditions, assured of its reliability and longevity, which is vital for supporting critical industrial operations effectively.

Streamlining Cleaning with True Flat Design

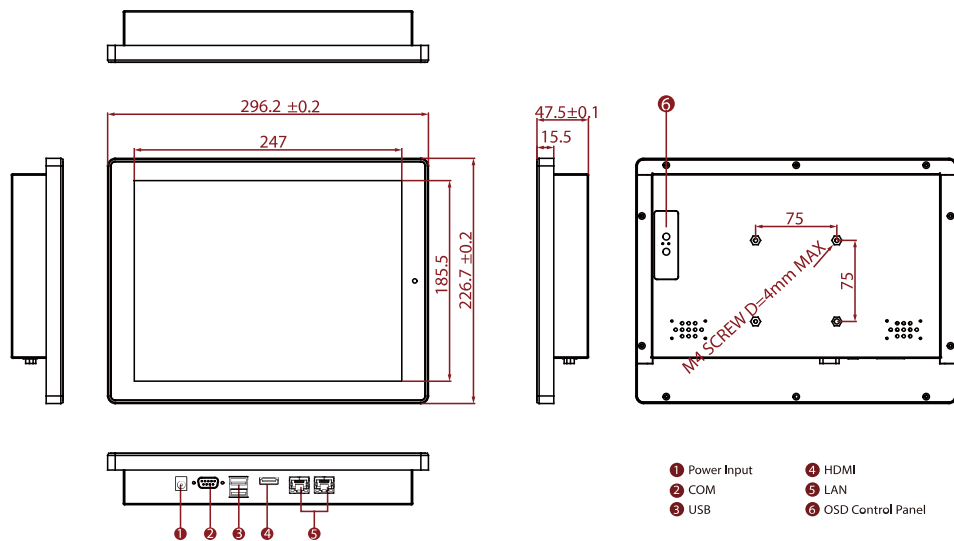
Experience a dust-free setting with the true flat surface of the GC series panel PC. Its sleek aesthetic, characterized by a fully flat surface and edge-to-edge bezel, ensures effortless maintenance and cleaning. The easy-to-clean feature not only enhances convenience but also helps prevent water or liquid from seeping into device crevices.



SPECIFICATIONS

Display			
Touch / Glass	Projected Capacitive Multi Touch Screen	Resolution	1024x768
Size	12.1 inches	Contrast Ratio	1000:1
Panel Brightness	500 nits 1000 nits(Optional)	View Angles	89,89,89,89
Active Area	245.76x184.32 mm		
System Specification			
WLAN	Support (Optional)	BT	Support (Optional)
Processor	Intel® Core™ i5-1235U 3.3GHz(up to 4.40 GHz)	Memory	1 x SO-DIMM, DDR5 4800 MHz, 8GB 16GB (Optional) 32GB (Optional)
Storage	1 x M.2 2280 M-Key NVMe SSD 256GB 512GB (Optional) 1TB (Optional) 2TB (Optional) 1 x SATA III for 2.5" SSD/HDD up to 2TB (Optional)	Ethernet controller	2 x Intel® Ethernet Controller
Security	TPM 2.0	Operating System	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 22.04(Do not support Wake on Touch) (Optional)
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-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	IP rating	Front IP65
Certification			
Certification	CE, FCC		
IO Ports			
USB Port	2 x USB3.2 Gen2x1 (Type-A)	Serial Port	1 x RS232/422/485 (Default RS232) 1 x RS232 (Optional)
Video	1 x HDMI 2.0 (Optional)	Audio	2 x Speaker
LAN	2 x 2.5 Giga LAN RJ45 Connector		
Mechanical			
Dimension	296.2 x 226.7 x 47.5 mm	Mounting	VESA mount Panel mount (Optional)
Enclosure	Metal	Cooling System	Fanless Design
Accessory			
Accessory	Quick Start Guide(Hardcopy) AC Adapter Power Cable		
Power			
Power Rating	12V DC 9-36V DC (Optional)		
Control			
Button	1 x Power Button 1 x Reset Button		

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.