

R12IAN3S-GCM2(HB)

12.1" G-WIN GC-Series Front IP65 PCAP Panel PC with Intel® Processor N150



KEY FEATURES

- 12.1-inch 1024 x 768 with P-CAP touchscreen
- Low power consumption with Intel® Processor N150
- Fanless cooling system design
- 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 2.5GbE LAN, 1 x COM, 2 x USB 3.2 Gen 2 x1, 1 x HDMI

INTRODUCTION

The Winmate R12IAN3S-GCM2(HB) is a 12.1-inch industrial fanless panel PC that leverages a low-power Intel® Processor N150 to deliver stable and reliable performance in demanding environments. It features a true flat, edge-to-edge PCAP touchscreen with an IP65-rated front panel, ensuring excellent protection against dust and water while remaining easy to clean. Equipped with comprehensive I/O connectivity—including dual 2.5GbE LAN, USB 3.2, and HDMI—this rugged device serves as an ideal Human-Machine Interface (HMI) solution for seamless integration into industrial automation systems.

SPECIFICATIONS

Display

Touch / Glass	Projected Capacitive Multi Touch Screen	Resolution	1024x768
Size	12.1 inches	Contrast Ratio	1000:1
Panel Brightness	500 (Default) nits 1000 nits(Optional)	View Angles	89, 89, 89, 89
Active Area	245.76x184.32 mm		

System Specification

Processor	Intel® Processor N150 6M Cache, up to 3.6 GHz	Memory	8GB(Default) (Default) 16GB (Optional)
Storage	128GB SSD(Default) (Default) 256GB SSD (Optional) 512GB SSD (Optional) 1TB (Optional) 2TB (Optional) 4TB (Optional)	Ethernet controller	2 x Intel® 2.5 Gigabit Ethernet Controller
Security	TPM 2.0	Operating System	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 24.04 (Optional)
WLAN	(Optional)	BT	(Optional)

Environment

Operating Humidity	10% to 90% (Non-Condensing)	Operating Temperature	0~50°C
Storage Temperature	-30°C~70°C	Shock	MIL-STD-810G Method 516.6
Vibration	MIL-STD-810G Method 514.6	IP rating	Front IP65

Certification

Certification CE, FCC

IO Ports

USB Port	2 x USB3.2 Gen2 x 1 (Type-A) 1 x USB 3.2 Gen 2x1 Type C	Serial Port	1 x RS232(Default)/422/485 ((Default RS232)
Video	1 x HDMI 2.0b, Max resolution up to 4096x2160@60Hz (Optional) 1 x USB Type C ,support DP Alt. mode.Max resolution up to 4096 x 2160@60Hz	Audio	2 x Speaker
LAN	2 x 2.5 Giga LAN RJ45 Connector		

Mechanical

Dimension	296.2 x 226.7 x 45.5 mm	Mounting	VESA mount (Default) Front IP65 Panel mount (Optional)
Enclosure	Aluminum	Cooling System	Fanless Design

Accessory

Accessory User Manual(Hardcopy)
AC Adapter
Power Cable

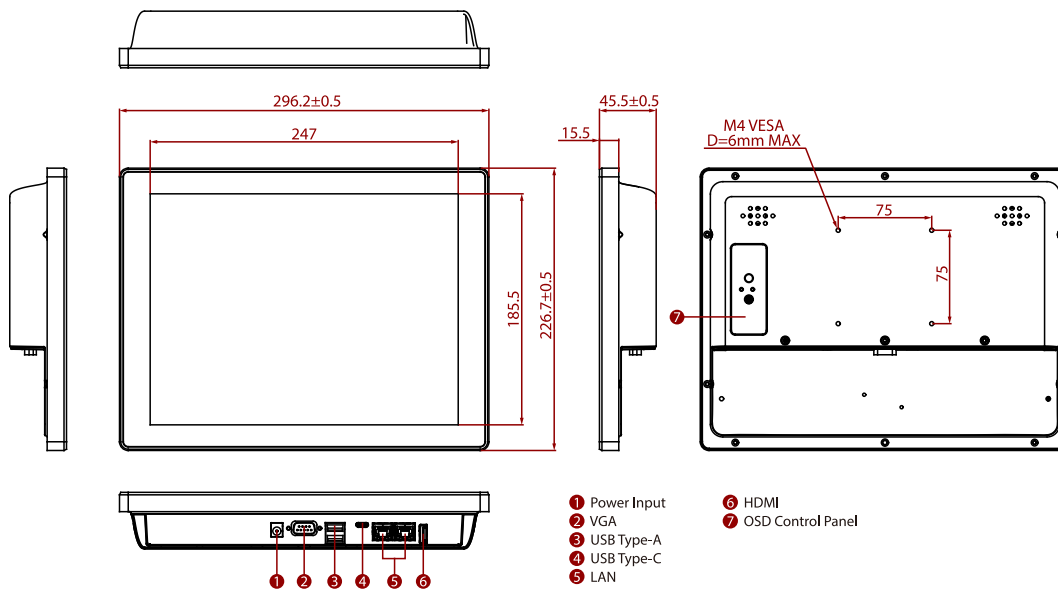
Power

Power Rating 12V DC input (Default)
9~36V DC input (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.