

R12IAN3S-GSM2(HB)

12.1" G-WIN GS-Series Full IP65 PCAP Panel PC with Intel® Processor N150



KEY FEATURES

- 12.1-inch 1024 x 768 Resolution with Projected Capacitive Multi-Touch (P-CAP)
- Low power consumption with Intel® Processor N150
- Fanless cooling system design
- Edge-to-edge design
- Full IP65 design with Special M12 Waterproof connectors
- 1 x GbE LAN, 1 x RS232, 1 x USB 2.0

INTRODUCTION

Winmate R12IAN3S-GSM2(HB) is a 12.1-inch G-WIN GS-Series Full IP65 PCAP Panel PC with Intel® Processor N150 engineered for machine control, factory automation, and operator HMI. It combines Intel® Processor N150, 12.1-inch display with 1024x768 resolution, and IP65 to support reliable operation in harsh industrial environments. With 12.1-inch 1024 x 768 Resolution with Projected Capacitive Multi-Touch (P-CAP), the R12IAN3S-GSM2(HB) helps OEMs, system integrators, and project teams deploy durable, configurable solutions for demanding field, factory, and mission-critical applications.

SPECIFICATIONS

Display

Touch / Glass	Projected Capacitive Multi Touch Screen (Default) Protection Glass (Optional)	Resolution	1024x768
Size	12.1 inches	Contrast Ratio	1000:1
Panel Brightness	500 nits(Default) 1000 (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) 16GB (Optional)
Storage	128GB SSD (Default) 256GB SSD (Optional) 512GB SSD (Optional) 1TB (Optional) 2TB (Optional)	Ethernet controller	1 x Intel® Gigabit Ethernet Controller
Security	TPM 2.0	Operating System	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 24.04 (Optional)
WLAN	(Optional)	BT	(Optional)

Environment

Operating Humidity	10% to 95% RH	Operating Temperature	-15~55°C
Storage Temperature	-30°C to 60°C	Shock	40g for 11ms
Vibration	1.48/1.90/2.24 g rms for XYZ/ 5-500Hz	IP rating	IP65, Dustproof and Waterproof

Certification

Certification	CE, FCC Compliant with MIL-STD-810F/G for vibration / shock
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IO Ports

USB Port	1 x USB 2.0 (M12 type)	Serial Port	1 x RS232/422/485 (Default RS232)(M12 type)
LAN	1 x LAN-10/100/1000 (M12 type)	Indicator	1 x LED Indicator for power 1 x LED Indicator for storage

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

Power

Power Rating	9-36V DC (M12 type)
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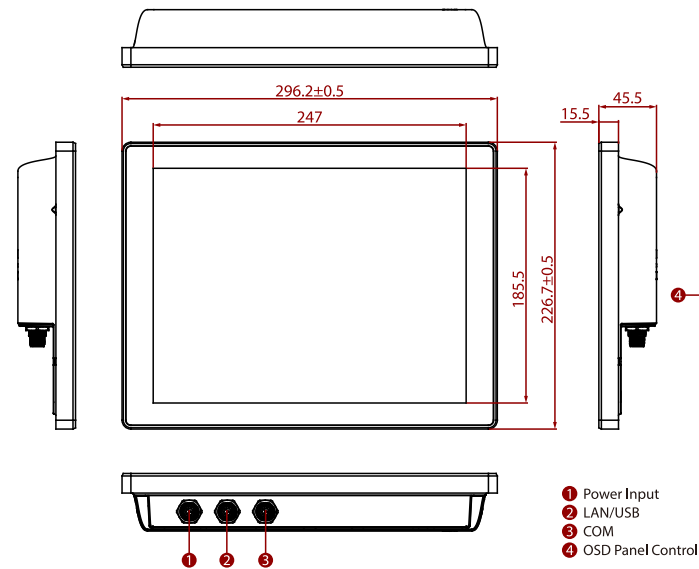
Accessory

Accessory	Quick Start Guide (Hardcopy) M12 Power Cable M12 Serial Interface Cable M12 USB/ LAN Cable I/O Protective Cap x 3
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Control

Button	1 x Power Button 1 x Reset Button
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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.
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