

R12IM3S-GSM2(HB)

12.1" ARM A53 G-WIN GS-Series Full IP65 PCAP Panel PC



KEY FEATURES

- 12.1" 1024 x 768 with PCAP touchscreen
- ARM A53 Quad Core 2.0GHz
- Fanless cooling system and Ultralow power consumption
- Onboard 32GB eMMC
- Onboard LPDDR4 4GB
- Full IP65
- 1 x LAN, 1 x RS232, 1 x USB, 1 x Micro USB, 1 x Micro SD
- Support Android or Linux operating system

INTRODUCTION

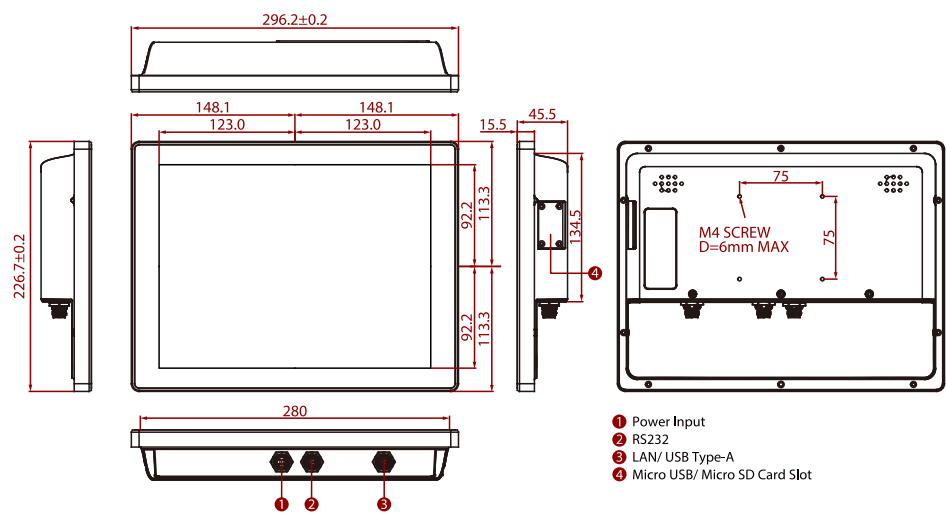
Winmate G-WIN GS Series Panel PC Series is engineered for demanding industrial applications, offering sizes from 7" to 15" with a fanless cooling system and ultra-low power consumption. These robust Panel PCs feature edge-to-edge design, PCAP multi-touch screens, and full IP65 protection with waterproof M12 connectors, ensuring resistance to water, dust, and harsh conditions. With versatile I/O options, rugged durability, and sleek functionality, they are ideal for manufacturing, outdoor kiosks, and other challenging environments.

SPECIFICATIONS

Display			
Touch / Glass	Projected Capacitive Multi Touch Screen Protection Glass (Optional)	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			
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)
Environment			
Operating Humidity	10% to 95% RH, Non-Condensing	Operating Temperature	-15°C to 55°C
Storage Temperature	-30°C to 60°C	Shock	MIL-STD-810H Method 516.8 Procedure I
Vibration	MIL-STD-810H Method 514.8 Procedure I	IP rating	IP65
Certification			
Certification	CE, FCC		
IO Ports			
USB Port	1 X USB 2.0 (M12 type) 1 X Micro USB	Serial Port	1 x RS232 (M12 type)(Optional 422/485)

SD Card Slot	1 x Micro SD card slot (Max to 32GB)	Audio	2 x Speaker
LAN	1 x LAN 10/100/1000 Mbps (M12 type)		
Mechanical			
Dimension	296.2 x 226.7 x 45.5 mm	Mounting	Panel mount VESA mount
Enclosure	Metal Housing with Aluminum Bezel	Cooling System	Fanless Design
Power			
Power Rating	12V DC (M12 type)		
Accessory			
Accessory	Quick Start Guide (Hardcopy) M12 Power Cable M12 Serial Interface Cable M12 USB/ LAN Cable I/O Protective Cap x 3		

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.