

R12FA3S-GSM2(HB)

12.1" Vehicle-mounted Touch Panel Computer with NXP i.MX6 G-WIN GS-Series



CE

FC



KEY FEATURES

- 12.1" 1024 x 768 Resolution with Projected Capacitive Multi-Touch (P-CAP)
- NXP i.MX6 Dual Core 1GHz (Optional Quad Core) Full IP65 PCAP Panel PC
- Fanless cooling system and ultra-low power consumption
- Onboard LPDDR3 1GB vehicle-mounted touch panel computer
- Onboard 16GB eMMC Flash
- Full IP65
- 1 x LAN, 1 x RS232, 1 x USB, 1 x USB OTG, 1 x Console, 1 x Micro SD

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.

OVERVIEW

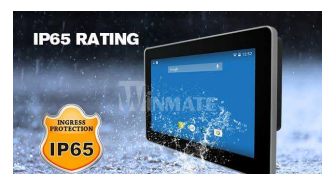


Easy-to-Clean Flat Surface

Winmate's Flat aluminum display goes beyond that of the standard industrial panel computers with its elegant, edge-to-edge design. The Panel PC is easy to clean, plus the screen is resistant to water and liquid droplets.

Dust and Water Protection

The dust and waterproof Panel PC complies with IP65 standards. Plus, the M12 connectors are waterproof for varying industrial environments.





Fanless Cooling System

The fanless design eliminates dust circulation for improved product longevity – especially in heavy-duty applications where dusty conditions are prevalent.

Comprehensive I/O Ports

Combining ruggedness with a range of I/O ports makes this device highly usable for heavy-duty industrial applications. Plus, the waterproof connectors come with screw-on caps for added protection.



Anti-Shock and Vibration

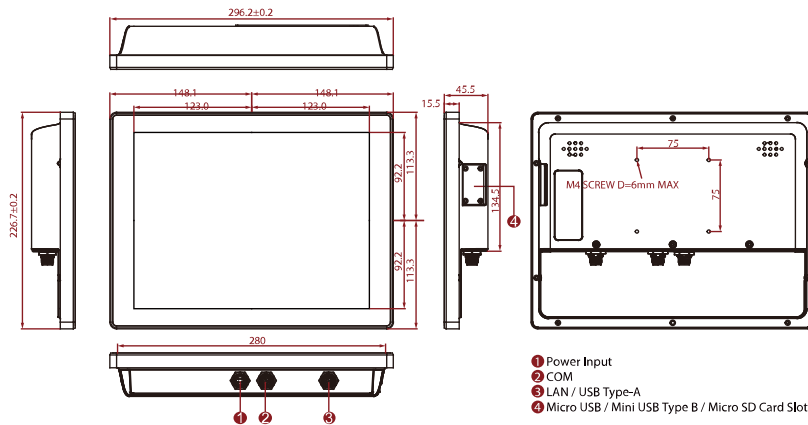
The G-Win series is as tough as it gets. The Panel PCs are compliant with MIL-STD-810G, and the aluminum die-casting is rock solid. Plus, optical bonding technology with anti-moisture treatment and resistive coating ensure the screen and housing are both rugged to the max.

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	NXP i.MX6 Dual Core, 1.0GHz	Memory	1GB 2GB (Optional)
Storage	eMMC: Onboard 16 GB eMMC: Onboard 32 GB (Optional)	Operating System	Linux Ubuntu 18.04 (Optional) Android 6.0 (Optional) Debian 7.0 (Optional) Linux 4.1.15 QT 5.5 (Optional)
WLAN	Support (Optional)	BT	Support (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		
IO Ports			
USB Port	1 X USB 2.0 (M12 type)	Serial Port	1 x RS232 (M12 type)(Optional 422/485)
SD Card Slot	1 x Micro SD Card Slot	Audio	2 x Speaker
LAN	1 x LAN-10/100/1000 (M12 type)		
Mechanical			
Dimension	296.2 x 226.7 x 45.5 mm	Mounting	VESA Mount/ Panel Mount
Enclosure	Metal Housing with Aluminum Bezel	Cooling System	Fanless Design
Power			
Power Rating	12V DC (M12 type)		
Accessory			
Accessory	Quick Start Guide (Hardcopy) Driver CD & User Manual 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.

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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