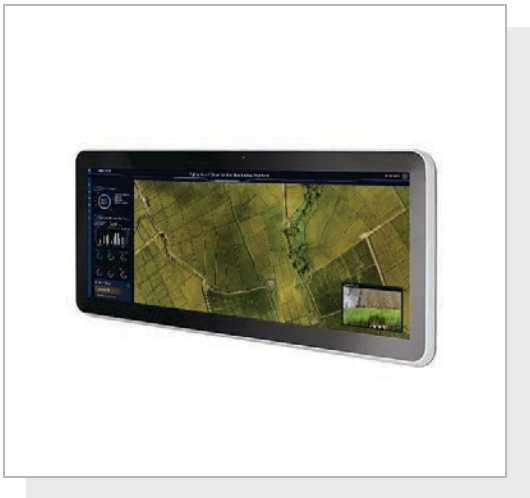


W12MG3S-GSB1

12.3" ARM A78+A55 G-WIN GS-Series Full IP65 PCAP Panel PC



KEY FEATURES

- 12.3" 1920 x 720 panel with projected capacitive multitouch screen
- ARM 2 x A78 2.2GHz + 6 x A55 2.0GHz
- M12 waterproof connectors , IP65 waterproof and dustproof
- Shock and vibration resistance according to MIL-STD-810H
- Support Android 13 operating system
- Wide power input 10-60V DC with ignition



OVERVIEW



Dust and Water Protection

Winmate G-WIN GS series panel PCs are designed with protection against dust and water splash according to IP65 standards. Making the off-highway automotive HMIs able to meet the need for advanced computing power in road-moving vehicles.



Fit for off-highway vehicle applications

Winmate automotive HMI solutions are built with high-performance computing technology in a compact body. It is suitable to be installed in a space-limited driving control room for off-highway vehicles used in agriculture, construction, material handling equipment, etc. The 12.3-inch HMIs can be VESA mount as well as integrated into the vehicle dashboard. Due to its compact measures, machine operators benefit from a less restricted view outside their cabins, easily integrated into ergonomic workplaces.



Comprehensive Waterproof I/O Ports

The automotive HMIs are designed for seamless integration with Electronic Control Units (ECU) for current and future-proof vehicle architectures CAN, Ethernet, RS232, DIO, and USB interfaces are provided in the M12 connectors, which are waterproof for varying industrial environments.



Engineered for Harsh Environments

Suitable for offering touch control and display functions for all-terrain vehicles, EV trucks, forklifts, AGVs in smart warehouses, or dispatching consoles in cranes, mining cars, high-speed railways trains, and so on. The GWIN GS product series is engineered for harsh environments to withstand extreme temperatures and vibrations compliant with MIL-STD 810H.

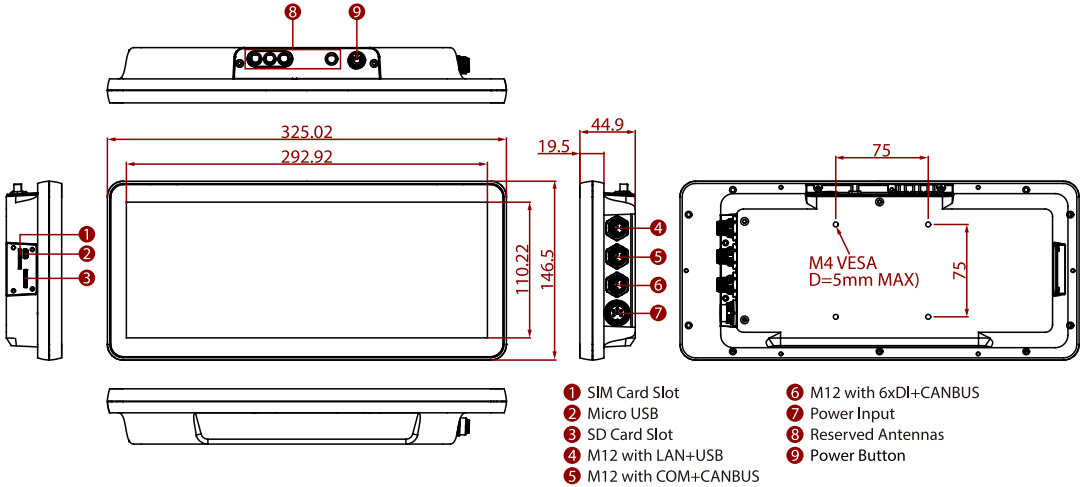
The HMI panels are for high brilliance and outdoor uses. The integrated projective capacitive touchscreen is multi-touch capable and can be operated with fingers, wet fingers, and gloves.

SPECIFICATIONS

Display			
Touch / Glass	Projected Capacitive Multi Touch Screen	Resolution	1920x720
Size	12.3 inches	Contrast Ratio	1000:1
Panel Brightness	1000.0 nits	View Angles	88,88,88,88
Active Area	292.92×110.22 mm		
System Specification			
Processor	ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz	Memory	4GB LPDDR4
Storage	Onboard 32 GB	Operating System	Android 13 Linux Yocto 5.10.104 with QT 5.15 (Optional) Linux Ubuntu 22.04 (Optional)
WLAN	Support (Optional)	BT	Support (Optional)

WWAN	4G/LTE (Optional)	GPS	GPS/GLONASS (Optional)
Mechanical			
Dimension	325.02 x 146.5 x 45 mm	Mounting	VESA mount
Cooling System	Fanless Design		
IO Ports			
USB Port	1 x USB 2.0 (M12 type) 1 x USB Type-C (OTG)	Serial Port	1 x RS232/422/485 (Default RS232) (Optional)
SD Card Slot	1 x Micro SD Card Slot	SIM Card Slot	1 x SIM card slot (Optional)
LAN	1 x LAN 10/100/1000 Mbps (M12 type)	DIDO	6 x Digital Input (M12 type) (Optional)
CANBUS	2 x CANBus (M12 type) (Optional)		
Environment			
Operating Humidity	5% to 95% RH	Operating Temperature	-20°C to 60°C
Storage Temperature	-30°C to 70°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		
Control			
Button	1 x Power Button		
Power			
Power Rating	10V~60V with ignition control	Adapter	12V 50W
Accessory			
Accessory	Quick Start Guide M12 Power Cable M12 USB/ LAN Cable	Optional Accessory	WLAN Antenna x 2 (Optional) WWAN Antenna x 2 (Optional) GPS Antenna, 3m (Optional) M12 COM Port/CANBus Cable (Optional) M12 Digital Input/CANBus Cable (Optional)

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.