

W12IAD3S-VMM9(HB)

12.1" Intel® Core™ i5-1235U G-WIN Vehicle Mount Panel PC



KEY FEATURES

- Wide 12.1" Panel, 1280 x 800 resolution, 400 nits (Optional for 1000 nits)
- 12th Gen Intel® Core™ i5-1235U processor
- -10 ~ +55°C Wide Range Operating Temperature
- Aluminum housing with anti-corrosion treatments. Fanless Design
- Wide Range 9 to 36V DC Input with isolation. Optional for Ignition On/Off delay
- Resistive Touch / Anti-Reflective Protection Glass (Optional)
- Front IP65 (Except I/O parts)
- Anti-Shock & Vibration compliant with MIL-STD-810F/G

INTRODUCTION

Winmate G-WIN VM Panel PC Series is engineered for vehicle-mounted applications, offering sizes from 8.4" to 15" with durable features tailored for harsh environments. With robust aluminum housing and anti-corrosion treatment, these PCs provide front IP65 protection and comply with MIL-STD-810F/G for shock and vibration resistance. The wide voltage input range (10-60V DC) with optional ignition control ensures compatibility with various vehicle power systems. High-quality resistive touchscreens, optional sunlight-readable displays, and fanless design make them ideal for transportation, logistics, and field operations.

SPECIFICATIONS

System Specification

WLAN	Support (Optional)	BT	Support (Optional)
Processor	Intel® Core™ i5-1235U 3.3GHz(up to 4.40 GHz)	Memory	1 x SO-DIMM, DDR5 4800 MHz, 8GB (Default) 16GB (Optional) 32GB (Optional)
Storage	1 x M.2 2280 M-Key NVMe SSD 256GB (Default) 512GB (Optional) 1TB (Optional) 2TB (Optional)	Ethernet controller	2 x Intel® Ethernet Controller
Security	TPM 2.0	Operating System	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 22.04(Do not support Wake on Touch) (Optional)

Display

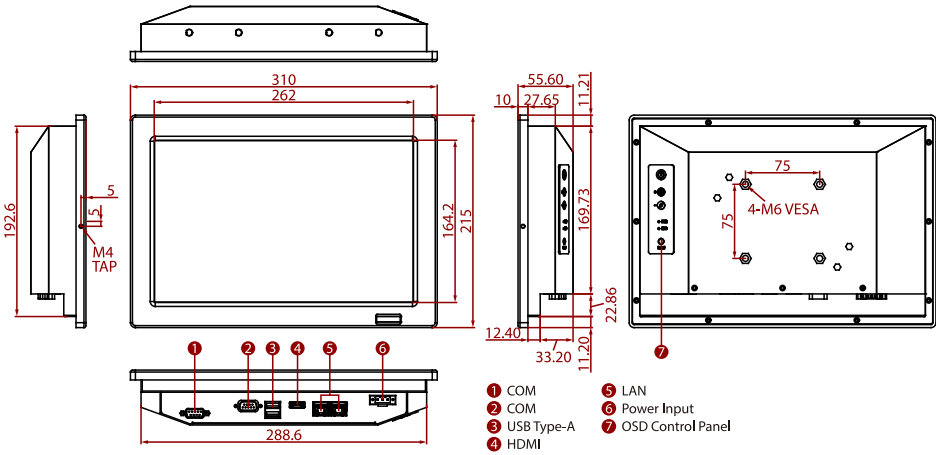
Resolution	1280x800	Size	12.1 inches
Contrast Ratio	1000:1	Panel Brightness	400.0 nits
View Angles	88,88,88,88	Active Area	261.12x163.2 mm
Touch / Glass	Resistive Touch Screen (Optional) Protection Glass Without Touch Function (Optional)	Optional function	High brightness Panel for sunlight readable (Optional)

Mechanical

Dimension	310 x 215 x 52.7 mm	Weight	2.8 kg
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Mounting	VESA mount	Enclosure	Aluminum Housing
Cooling System	Fanless Design		
Environment			
Operating Humidity	10% to 90% RH, Non-Condensing	Operating Temperature	-10°C to 55°C
Storage Temperature	-30°C to 70°C	Shock	MIL-STD-810G Method 516.6 Procedure I (Optional)
Vibration	MIL-STD-810G Method 514.6 Procedure I	IP rating	Front IP65
Certification			
Certification	CE, FCC		
IO Ports			
Power Input	1 x 9~36V DC, 3-Pin Terminal Block	USB Port	2 x USB3.2 Gen2x1 (Type-A)
Serial Port	1 x RS232/422/485 (Default RS232) 1 x RS232	Video	1 x HDMI 2.0 (Optional)
Expansion Port	1 x M.2 2280 M-Key Slot (for NVME SSD) 1 x M.2 2230 E-Key Slot (for Wi-Fi module)	LAN	2 x 2.5 Giga LAN RJ45 Connector
Indicator	1 x LED Indicator for power 1 x LED Indicator for storage		
Control			
Button	1 x Power Button 1 x Reset Button 1 x Brightness Up button 1 x Brightness Down button		
Accessory			
Accessory	Open Wire Cable with terminal block connector VESA screws	Optional Accessory	100~240V AC to DC 120W Adapter with power cord (Optional)

DIMENSIONS UNIT:MM



NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Windows 10 operating system requires installing a new version of BIOS and OS image.
3. Windows 7 does not support the TPM 2.0 function.
4. Weight of the device varies by configuration.
5. Please contact our sales representative if you need further product information.
6. All specifications are subject to change without prior notice.
7. 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.