

W12IAN3S-VMM9(HB)

12.1" Intel® Processor N100 G-WIN Vehicle Mount Panel PC



CE

FC

KEY FEATURES

- Intel® Processor N100 6M Cache, up to 3.40 GHz, Fanless Design
- High Quality 12.1" Panel, 1280 x 800 resolution
- Front IP65 Dust / water resistant Protection (Except I/O parts)
- Aluminum Housing with Anti-Corrosion Treatments
- Anti-Shock and Vibration Standard according to MIL-STD-810H
- 5 Wire Resistive Touchscreen / Anti-Reflection Protection Glass (Optional)
- WLAN with Antenna (Optional)
- 10 ~ 60V DC Isolation Wide Range Power Input. Optional Ignition on/off control function

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-810H 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

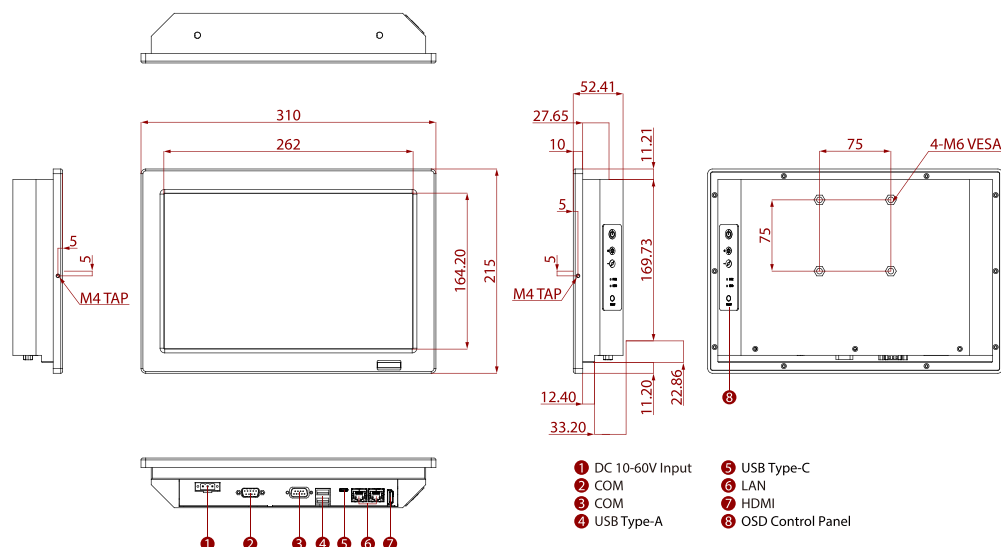
WLAN	Support (Optional)	BT	Support (Optional)
Processor	Intel® Processor N100 6M Cache, up to 3.40 GHz	Memory	1 x SO-DIMM, DDR5 4800 MHz, 8GB 16GB (Optional)
Storage	1 x M.2 2280 M-Key NVMe SSD 128GB 256GB (Optional) 512GB (Optional) 1TB (Optional) 2TB (Optional) 4TB (Optional) 1 x SATA III for 2.5" SSD/HDD up to 2TB(Only available when NVME SSD is not present) (Optional)	Ethernet controller	2 x Intel® 2.5 Gigabit Ethernet Controller
Security	TPM 2.0	Operating System	Windows 10 Pro 64 bit (Optional) Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 24.04(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
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 10~60V DC, 3-Pin Terminal Block	USB Port	2 x USB3.2 Gen1x1 (Type-A) 1 x USB 3.2 Gen 2x1 Type C connector, support DP Alt. mode
Serial Port	1 x RS232/422/485 (Default RS232) 1 x RS232	Video	1 x HDMI 2.0b (Optional)
Audio	2 x Speaker	Expansion Port	1 x M.2 2280 M-Key Slot (for NVMEI 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 84W Adapter with power cord (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.