

FM14AD-V

14" Windows Vehicle Computer with Intel® Alder Lake Processor



KEY FEATURES

- 12th Gen. Intel® Processor Family – Alder Lake Processor
- 14" 1920 x 1080 Panel with PCAP touch screen vehicle mount terminal
- IP65 waterproof and dustproof
- Wide power input 10-60V DC with ignition
- Wide range operating temperature
- Support VESA Mount



OVERVIEW



Vibration and shock-proof design ensure reliable performance

Winmate FM14AD-V is rugged enough to survive harsh industrial environments. Its solid enclosure enhances its durability according to the MIL-STD-810H standard and IP65 water and dust protection. The Winmate FM14AD-V is ready for your harshest environments.



Wider Screen

The FM14AD-V features a wider PCAP touch screen offering visibility and productivity in various environments and applications.



High-Performance CPU

The FM14AD-V is powered by the Intel Alder Lake Series processors to support the next generation of Industrial IoT. Provide better graphics performance and connectivity for integrated IoT features, real-time data management, and work efficiency.



Reliable computing under extreme operating temperatures

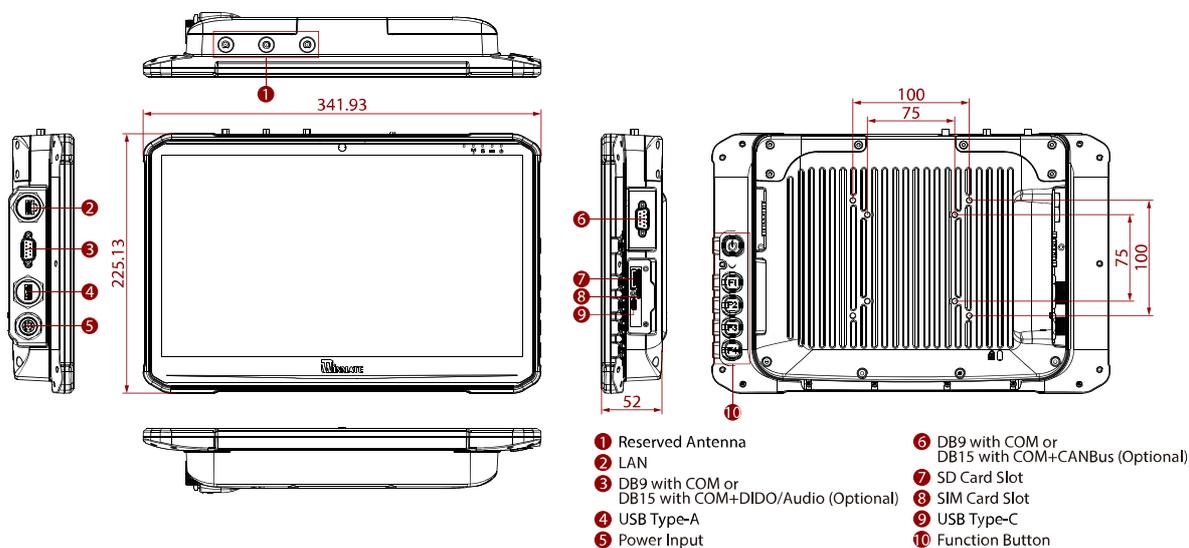
Get frost and condensation-free operation in the freezer. The Winmate all-in-one vehicle mount computer is designed to seamlessly fit most warehouses, cold supply chains, and heavy-duty vehicles. It features a set of programmable keys and a glove-friendly touchscreen to simplify complex operations.

SPECIFICATIONS

Display			
Bonding	Optical Bonding for Sunlight Viewability	Resolution	1920x1080
Size	14.0 inches	Contrast Ratio	800:1
Panel Brightness	700.0 nits	View Angles	85,85,85,85
Type	Projected Capacitive Multi Touch		
System Specification			
Processor	Intel® Core™ i5-1235U 3.30 GHz (up to 4.40 GHz)	Memory	8GB DDR5 SDRAM, up to 32GB
Storage	128GB NVMe SSD 256GB NVMe SSD (Optional)	Security	TPM 2.0
Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise LTSC (64 bit) (Optional)	WLAN	Support

BT	Support	WWAN	LTE/5G Sub 6 (Optional)
GNSS	GPS/GLONASS (Optional)	Sensors	G-Sensor, Light Sensor ,Temp Sensor
Camera			
Front Camera	2MP Camera		
Mechanical			
Dimension	342 x 225 x 52 mm	Weight	2.5 kg
Mounting	VESA mount	Cooling System	Fanless Design
IO Ports			
USB Port	1 x USB 3.0 Type C 1 x USB 2.0 Port	Serial Port	2 x RS232/422/485 (Default RS232)
SD Card Slot	1 x Micro SD Card Slot	SIM Card Slot	1 x Dual-Nano SIM Card Slot
Audio	1 x Audio(Mic in & Line Out) either one with DIDO (Optional)	LAN	1 x Gigabit LAN port PSE (IEEE 802.3at 30W) (Optional)
Indicator	4 x LED Indicator	DIDO	1 x DIDO (2XDI ; 2XDO) either one with Audio (Optional)
CANBUS	1 x CANBus (Optional)		
Environment			
Operating Humidity	5% to 90% RH, Non-Condensing	Operating Temperature	-30°C to 60°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
Impact	Support EN62262 IK07 Rating	ESD	Compliant with EN 61000-4-2, enhanced ESD to ±12kV direct & ±15kV air
Certification			
Certification	CE, FCC FCC (Electromagnetic Emissions), IC (ICES-003) UL60950-1, EN60950-1, PTCRB		
Control			
Button	1 x Power Button, 4 x Function Button (Programmable Function Key Configured by Winset)		
Power			
Battery	2400mAh UPS Battery for 1 hour backup (Optional)	Power Rating	10V~60V with ignition control
Security Function			
SOTI MobiControl	SOTI MobiControl Compliance		
Accessory			
Accessory	1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 150W Adapter with power cable Quick Start Guide	Optional Accessory	Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable COM Port + DIDO Cable

DIMENSIONS UNIT:MM



NOTE

1. Total usable memory will be less dependent upon actual system configuration.
2. SOTI is available upon request.
3. Length measurements do not include protrusions. Weight varies with options.
4. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
5. Accessories may vary depending on your configuration.
6. This is a simplified drawing and some components are not marked in detail.
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.
8. COM port can supply 5V power via the 9th pin.