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
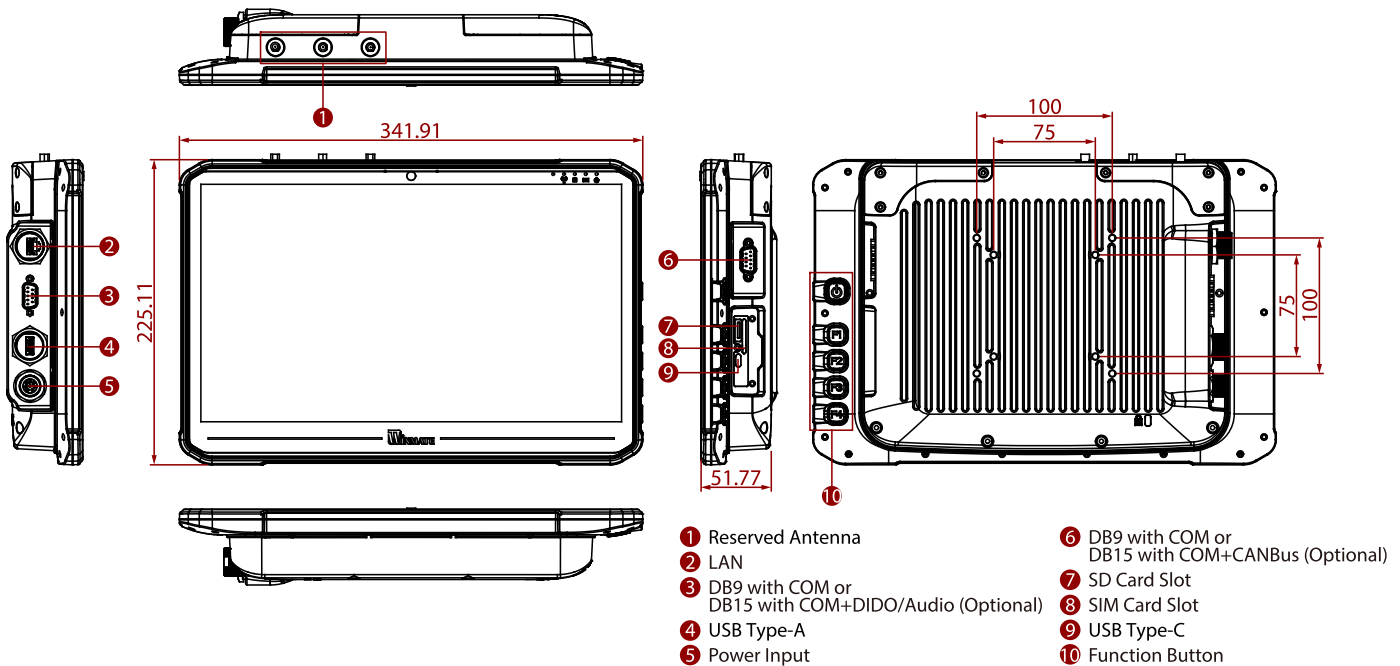- Wide range operating temperature
- Support VESA Mount

SPECIFICATIONS

Display

Bonding	Optical Bonding for Sunlight Viewability	**Resolution**	1920x1080
Size	14 inches	**Contrast Ratio**	800:1
Panel Brightness	700 nits	**View Angles**	85,85,85,85
Type	Projected Capacitive Multi Touch		

System Specification

Processor	Intel® Core™ i5-1235U, up to 4.40GHz	**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	**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	RAM Mount/ VESA Mount	**Cooling System**	Fanless Design

IO Ports

USB Port	1 x USB 3.0 Type C (OTG) 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 or 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 50°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 Certified, Waterproof and Dustproof

Impact	Support EN62262 IK07 Rating	ESD	Compliant with EN 61000-4-2, enhanced ESD to ±12kV direct & ±15kV air
Certification			
Certification	CE, FCC, UL60950-1, EN60950-1, PTCRB, FCC (Electromagnetic Emissions), IC (ICES-003)		
Control			
Button	1 x Power Button, 4 x Function Button (Programmable Function Key Configured by Winset)		
Power			
Power Rating	10V~60V with ignition control		
Security Function			
SOTI MobiControl	SOTI MobiControl Compliance		
Accessory			
Accessory	5M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Quick Start Guide	**Optional Accessory**	Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 2M Combo Antenna(VM240) 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

341.91
225.11
51.77
100
75
75
100

❶ Reserved Antenna
❷ LAN
❸ DB9 with COM or DB15 with COM+DIDO/Audio (Optional)
❹ USB Type-A
❺ Power Input
❻ DB9 with COM or DB15 with COM+CANBus (Optional)
❼ SD Card Slot
❽ SIM Card Slot
❾ USB Type-C
❿ Function Button

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.