FM12AD-V

12.1" Windows Warehouse Computer with Intel® Alder Lake Processor

KEY FEATURES

- 12th Gen. Intel® Processor Family – Alder Lake Processor
- 12.1" 1024 x 768 Panel with PCAP touch screen warehouse computer
- IP65 waterproof and dustproof
- Wide power input 10-60V DC with ignition
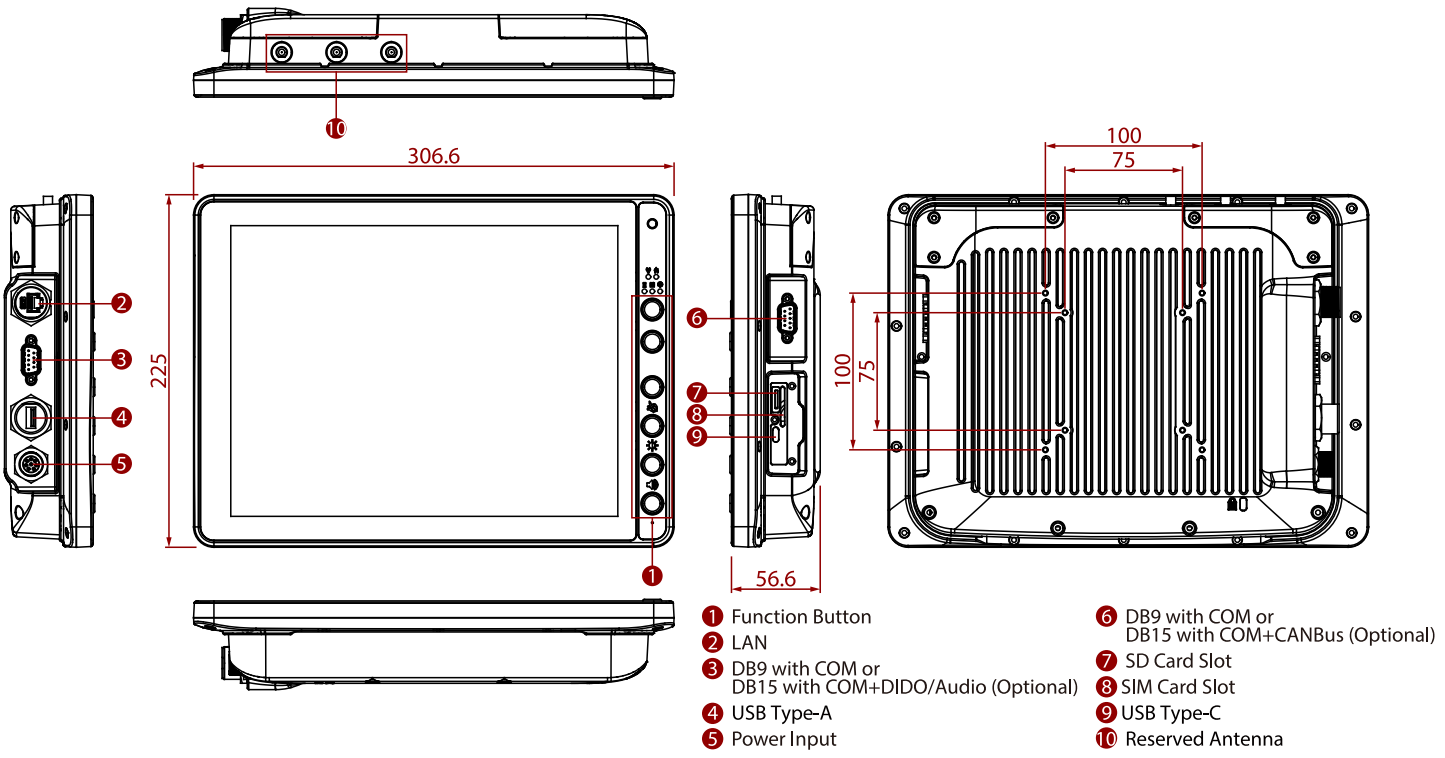- Wide range operating temperature
- Support VESA Mount

CE FC IP65 COMPLIANT MIL-STD 810H

SPECIFICATIONS

Display

Type	Projected Capacitive Multi Touch	**Touch Mode**	Support Hand, Stylus, Glove Mode
Resolution	1024x768	**Size**	12.1 inches
Contrast Ratio	1000:1	**Panel Brightness**	400 nits 800 nits(Optional)
View Angles	89,89,89,89		

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	307 x 225 x 57 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 95% 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 ±8kV Direct & ±15kV Air

Certification

Certification	CE, FCC FCC (Electromagnetic Emissions), IC (ICES-003) UL60950-1, EN60950-1, PTCRB		

Control

Button	1 x Power Button, 5 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

306.6   225   100   75   100   75   56.6

❶ Function Button
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 Reserved Antenna

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.
5. COM port can supply 5V power via the 9th pin.

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