

# 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



### OVERVIEW



#### Vibration and shock-proof design ensure reliable performance

When it comes to industrial usage, Winmate FM12AD-V that is rugged enough to survive harsh environments is a must. Its solid enclosure proves the FM12E’s durability with MIL-STD-810H certification and IP65 rating.



#### PCAP Touch Screen

The FM12AD-V features a compact panel with a PCAP touch screen. Resistant to dirt, debris, and highly sensitive touch commands make you enjoy every touch and convenience of using the device.



#### High-Performance CPU

To support the next generation of IoT edge devices, FM12AD-V has developed a new line of processors enhanced for IoT—the Intel Alder Lake processors. The processors build on new levels of CPU and graphics performances with integrated IoT features, real-time performance, manageability, security, and functional safety.



#### 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			
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)	WLAN	Support

<b>BT</b>	Windows 11 IoT Enterprise LTSC (64 bit) (Optional) Support	<b>WWAN</b>	LTE/5G Sub 6 (Optional)
<b>GNSS</b>	GPS/GLONASS (Optional)	<b>Sensors</b>	G-Sensor, Light Sensor, Temp Sensor
<b>Camera</b>			
<b>Front Camera</b>	2MP Camera		
<b>Mechanical</b>			
<b>Dimension</b>	307 x 225 x 57 mm	<b>Weight</b>	2.5 kg
<b>Mounting</b>	VESA mount	<b>Cooling System</b>	Fanless Design
<b>IO Ports</b>			
<b>USB Port</b>	1 x USB 3.0 Type C 1 x USB 2.0 Port	<b>Serial Port</b>	2 x RS232/422/485 (Default RS232)
<b>SD Card Slot</b>	1 x Micro SD Card Slot	<b>SIM Card Slot</b>	1 x Dual-Nano SIM Card Slot
<b>Audio</b>	1 x Audio(Mic in & Line Out) either one with DIDO (Optional)	<b>LAN</b>	1 x Gigabit LAN port PSE (IEEE 802.3at 30W) (Optional)
<b>Indicator</b>	4 x LED Indicator	<b>DIDO</b>	1 x DIDO (2XDI ; 2XDO) either one with Audio (Optional)
<b>CANBUS</b>	1 x CANBus (Optional)		
<b>Environment</b>			
<b>Operating Humidity</b>	5% to 95% RH, Non-Condensing	<b>Operating Temperature</b>	-30°C to 60°C
<b>Storage Temperature</b>	-30°C to 60°C	<b>Shock</b>	MIL-STD-810H Method 516.8 Procedure I
<b>Vibration</b>	MIL-STD-810H Method 514.8 Procedure I	<b>IP rating</b>	IP65
<b>Impact</b>	Support EN62262 IK07 Rating	<b>ESD</b>	Compliant with EN 61000-4-2, Enhanced ESD to ±8kV Direct & ±12kV Air
<b>Certification</b>			
<b>Certification</b>	CE, FCC FCC (Electromagnetic Emissions), IC (ICES-003) UL60950-1, EN60950-1, PTCRB		
<b>Control</b>			
<b>Button</b>	1 x Power Button, 5 x Function Button (Programmable Function Key Configured by Winset)		
<b>Power</b>			
<b>Battery</b>	2400mAh UPS Battery for 1 hour backup (Optional)	<b>Power Rating</b>	10V~60V with ignition control
<b>Security Function</b>			
<b>SOTI MobiControl</b>	SOTI MobiControl Compliance		
<b>Accessory</b>			
<b>Accessory</b>	1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 150W Adapter with power cable Quick Start Guide	<b>Optional Accessory</b>	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

