

FM12Q9

12.1" Android Vehicle Mounted Computer with Qualcomm® 6490



KEY FEATURES

- Qualcomm® 6490, OctaCore, up to 2.7GHz
- 12.1" 1024 x 768 Panel with PCAP Touch, Android car mounted computer
- Field replaceable front panel to reduce service costs
- IP65 waterproof and dustproof vehicle mounted computer
- Wide range -30°C to 60°C operating temperature

INTRODUCTION

Winmate FM Series Android Vehicle Mounted Computer (VMC) is a rugged and versatile solution designed for demanding industrial and logistics applications. Powered by Qualcomm® 6490 processors, it delivers reliable performance for forklift and fleet operations. Featuring an IP65-rated waterproof and dustproof design, a wide -30°C to 60°C operating temperature range, and a field-replaceable front panel to reduce service costs, the FM Series ensures durability and efficiency. Its built-in backup battery enables seamless dock-to-dock transitions, ensuring uninterrupted productivity.

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(Default) 800 (Optional)
View Angles	89,89,89,89		
System Specification			
Processor	Qualcomm® 6490, Octa-Core, up to 2.7GHz	Memory	8GB
Storage	128GB	Operating System	Android 15.0
WLAN	Support	BT	Support
WWAN	4G (Optional) 5G (Optional)	GNSS	GPS/GLONASS
Sensors	G-Sensor, Temp. Sensor		
Camera			
Front Camera	2MP Camera		
Mechanical			
Dimension	Tablet: 307 x 225 x 41 mm Docking: 202 x 245 x 52 mm	Weight	Tablet 1.7 kg Docking 1.6 kg
Mounting	RAM mount/ VESA mount	Cooling System	Fanless Design
Docking Housing	Aluminum Alloy Housing		
IO Ports			

USB Port	1 x USB 3.0 Type C (Tablet) 1 x DB9 Connector for 2 x USB 2.0 Port(Docking)	Serial Port	2 x COM Port(Docking)
SD Card Slot	1 x Micro SD Card Slot(Tablet)	SIM Card Slot	1 x Dual-Nano SIM Card Slot(Tablet)
Audio	2 x Speaker(Docking) 1 x CANBus or 1 x Audio(Docking)	LAN	1 x Gigabit LAN port(Docking)
Indicator	3 x LED Indicator (WLAN, UPS battery, Heater)	Antenna connector	SMA Connector(female) for external antenna WLAN (Tablet) SMA Connector(female) for external antenna GPS (Docking) SMA Connector(female) for external WWAN/5G antenna (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 & ±12kV Air

Certification

Certification	CE, FCC
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Control

Button	1 x Power Button, 5 x Function Button (Programmable Function Key Configured by Winset)
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Power

Battery	7.6V UPS Battery (2S1P) Minimum 30 minutes	Power Rating	Docking: 10V-60V with ignition control Tablet: 12V DC In
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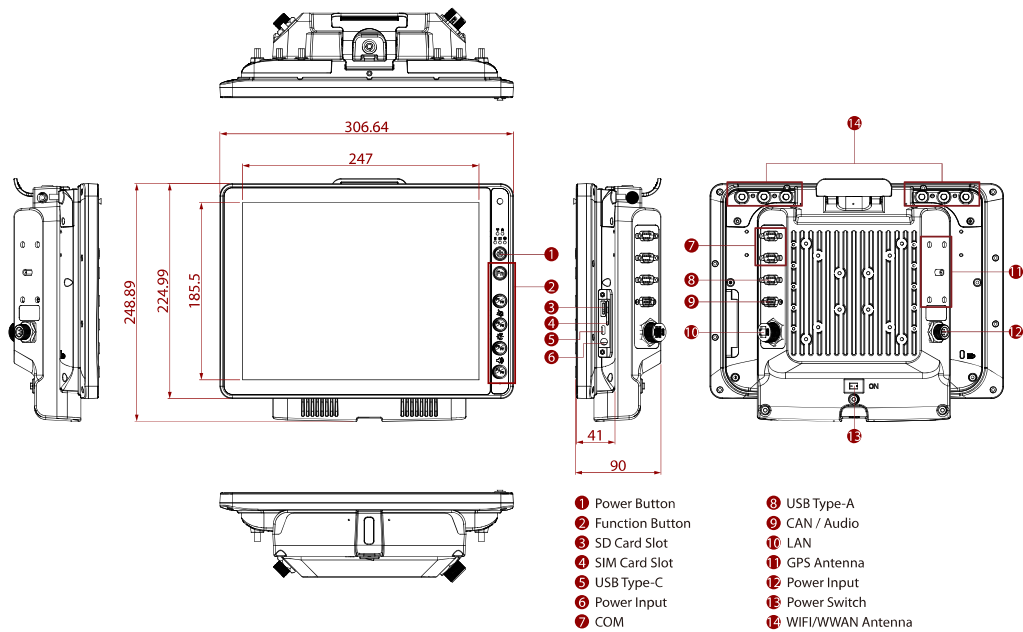
Security Function

SOTI MobiControl	SOTI MobiControl Compliance
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Accessory

Accessory	5M Power Cable with Fuse Kit 0.3M USB Cable 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Cable Clamp Kit WLAN Antenna x 2 Quick Start Guide External Antenna Fixing Bracket Dock + Latch Locking Key Stylus Kit + Screw	Optional Accessory	1.8M RS232 Cable 0.3M Audio Cable 1.8M CAN BUS Cable 1.8M CAN BUS Open Wire Cable 2M IP65 LAN Cable GPS & LTE 2M Combo Antenna(VM240) GPS & LTE 5M Combo Antenna (VM9C) Magnetic Combo Antenna (VM10S) WWAN Antenna USB-C to HDMI Adapter
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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.
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