

FM12Q-V

12.1inch Android Vehicle Computer with Qualcomm Snapdragon™ 660



KEY FEATURES

- Qualcomm Snapdragon™ 660 octacore, 2.2 GHz CPU
- 12.1" 1024 x 768 Panel with PCAP Touch, Android vehicle 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 FM12Q-V that is rugged enough to survive harsh environments is a must. Its solid enclosure proves the FM12Q-V's durability with MIL-STD-810H certification and IP65 rating.



PCAP Touch Screen

The FM12Q-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, FM12Q-V has developed a new line of processors enhanced for IoT—Qualcomm® Snapdragon™ 660 Series processors. These 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

Low-power components of industrial computers prevent overheating and are less likely to achieve high temperatures in the first place.

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	Qualcomm® Snapdragon™ 660 (Octa-Core 2.2 GHz)	Memory	3GB
Storage	32GB	Operating System	Android 9.0
WLAN	Support	BT	Support
WWAN	4G/LTE (Optional)	GNSS	GPS/GLONASS (Optional)

Sensors	G-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 (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 & Line Out) either one with DIDO (Optional)	LAN	1 x Gigabit LAN port PSE (IEEE 802.3at 30W) (Optional)
Indicator	3 x LED Indicator (WLAN, UPS battery, Heater)	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 & ±12kV Air
Certification			
Certification	CE, FCC		
Control			
Button	1 x Power Button, 5 x Function Button (Programmable Function Key Configured by Winset)		
Power			
Battery	400mAh UPS Battery for 20 minutes backup (Optional)	Power Rating	10V~60V with ignition control
Consumption	35W (Typical)		
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 84W Adapter with power cable Quick Start Guide	Optional Accessory	5M Power Cable with Fuse KitStylus 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

