FM07MG

7" ARM A78 + A55 Android Vehicle Mounted PC

CE

FC

IP65

KEY FEATURES

- 7" 1024 x 600 panel with projected capacitive MultiTouch screen
- ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz
- M12 waterproof connectors , IP65 waterproof and dustproof
- Wide power input 9-24V DC with ignition
- Shock and vibration resistance according to MIL-STD-810H

INTRODUCTION

Winmate FM-V Series Android Vehicle Mounted Computer (VMC) delivers robust performance and versatility for industrial and automotive applications. Available in sizes from 7" to 14", it features powerful processor options, including ARM A78 and A55 cores, ARM A53 Quad Core, and Qualcomm® Snapdragon™ 660. Designed with IP65-rated waterproof and dustproof protection, wide 10-60V DC power input with ignition, and reliable operation in extreme temperatures, the FM-V Series ensures durability and efficiency. With VESA mount support, it is perfect for fleet management, warehouse operations, and forklift-mounted applications.

OVERVIEW

Enhanced User Experience with P-Cap Touch

With the glass cover lens, the device gets strong protection against scratches. The P-Cap Touch feature lets you navigate with up to four touch points, making every interaction smoother and simplifying how you use the device. It really amps up the overall customer experience.

Industrial-Grade Tablet with IP65 and M12 Waterproof Connectors

The tablet is equipped with M12 waterproof connectors, providing robust electrical interfaces suitable for industrial environments. With an IP65 rating, the tablet offers protection against dust ingress and low-pressure water jets, ensuring reliability in challenging conditions. These features make it well-suited for use in various industries where durability and resilience are paramount.

Versatile Power

The Android Vehicle Mounted Computer supports a wide power input of 9-24V DC, ensuring compatibility with various power sources. With ignition support, it reliably operates in automotive and industrial settings. Versatile and resilient, it adapts seamlessly to diverse environments.

Compliance with MIL-STD-810H Standards

The Android Vehicle Mounted Computers, meeting MIL-STD-810H standards, guarantee peak performance in rugged environments. Designed to endure vibrations, and shocks, they excel in industrial vehicles. With their robust build, these devices deliver seamless operation in demanding conditions.

SPECIFICATIONS

Display

Resolution	1024x600	Size	7.0 inches
Contrast Ratio	700:1	Panel Brightness	1000.0 nits
View Angles	75,75,75,70	Active Area	153.6x90 mm
Touch / Glass	Projected Capacitive Multi Touch Screen		

System Specification

WLAN	Support	WWAN	4G/LTE (Optional)
GPS	GPS/GLONASS (Optional with WWAN only)	RFID	NFC (Optional)
Processor	ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz	Memory	4GB LPDDR4
Storage	Onboard 64 GB	Operating System	Android 13 Linux Yocto 5.10.104 with QT 5.15 (Optional) Linux Ubuntu 22.04 (Optional)

Environment

Operating Humidity	10% to 95% RH	Operating Temperature	-20°C to 60°C
Storage Temperature	-20°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

Certification

Certification	CE, FCC

Control

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

IO Ports

USB Port	2 x USB for DB9 1 X USB Type-C	Serial Port	1 x RS232/422/485 (Default RS232)
SD Card Slot	1 x Micro SD card slot (Max to 32GB)	SIM Card Slot	1 x SIM Card Slot (Optional)
Audio	1x Speaker	LAN	1 x LAN 10/100/1000 Mbps (M12 type)
Indicator	Power	DIDO	DIDO (5XDI ; 3XDO)
CANBUS	1 x CANBus		

Mechanical

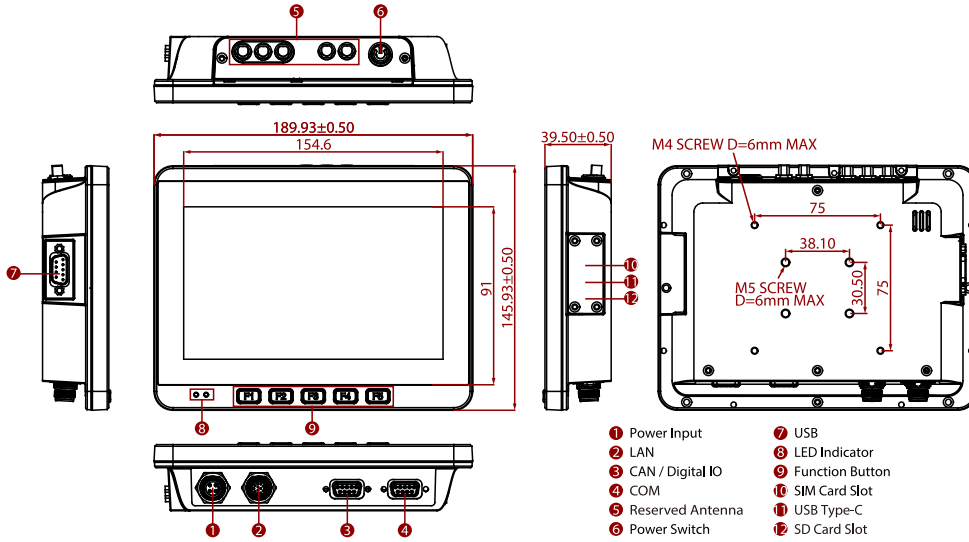|			
Dimension	190 x 146 x 40 mm	Weight	1.25 kg
Mounting	RAM mount/ VESA mount	Cooling System	Fanless Design

Accessory

Accessory	User Guide M12 LAN Cable, 1.8m RS232 Cable, 1.8m M12 Power Cable, 1.8m USB Cable, 0.3m CANBus Cable, 1.8m WLAN Antenna x1 Power Converter Cable Power Adapter	Optional Accessory	WWAN Antenna x 2 (Optional) Audio Cable, 0.3m (Optional) GPS Antenna, 3m (Optional)

Power

Power Rating	9V~24V, with ignition control

DIMENSIONS   UNIT:MM

189.93±0.50
154.6
39.50±0.50

91
145.93±0.50

M4 SCREW D=6mm MAX
75
38.10
M5 SCREW D=6mm MAX
30.50
75

❶	Power Input	❼	USB
❷	LAN	❽	LED Indicator
❸	CAN / Digital IO	❾	Function Button
❹	COM	❿	SIM Card Slot
❺	Reserved Antenna	⓫	USB Type-C
❻	Power Switch	⓬	SD Card Slot

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.