FM07M

7" ARM A53 Android Vehicle Mounted PC

KEY FEATURES

- 7" 1024 x 600 panel with projected capacitive multitouch screen
- ARM A53 Quad Core 2.0GHz android vehicle mounted pc
- Wide power input 9-24V DC with ignition
- M12 waterproof connectors , IP65 waterproof and dustproof
- Shock and vibration resistance according to MIL-STD-810H
- Support Android or Linux operating system

OVERVIEW

Easy In-Vehicle Installation

Winmate FM07 series supports both VESA mount and RAM mounts to help you save the time and ease installing the vehicle-mounted computer. The FM07 is easily mounted and fully-rugged, helps you to have higher work efficiency.

For more mounting information, please visit RAM Mount, VESA Mount

Vehicle Power Solution

Wide power input with the ignition control feature detects the ignition signal status and allows users to control the on or off delay time setting through the customized software utility. Power input voltage varies by model.

Programmable Function Keys

Save the time on finding your favored application on the screen by using 5 programmable function keys. Customize the function for your unique application.

Wireless Connectivity

The FM07 series vehicle-mounted computer features wireless connectivity Wi-Fi, BT, and GPS to help you stay connected no matter where a task brings you. Add an optional WWAN feature for your in-vehicle IoT application.
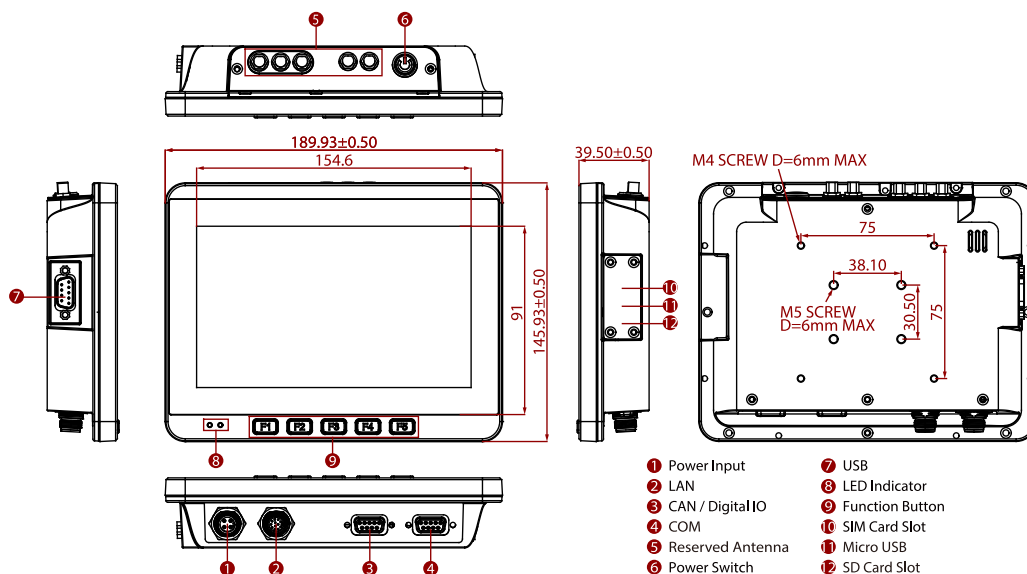
Built to Survive

The FM07 is a fixed mount computer built to survive the rigors of the road. Vibration and shock-resistant, the FM07 series is compliant with the MIL-STD-810H standard, IP65 water and dustproof with M12 waterproof connectors. Winmate’s FM07 Series is built to survive extreme weather, operates through temperature changes from -20°C to 60°C and is suitable for cold storage applications.

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

Processor	ARM A53 (Quad Core 2.0GHz)	Memory	4GB LPDDR4
Storage	eMMC: Onboard 32 GB	Operating System	Android 11 (Upgradeable to Android 13) Linux Yocto 5.10.104 with QT 5.15 (Optional) Linux Ubuntu Server 22.04 (Optional)
WLAN	Support	WWAN	4G/LTE (Optional)
GPS	GPS/GLONASS	RFID	NFC (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 516.6 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 Micro USB OTG	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 BT 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

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

NOTE

1. Total usable memory will be less dependent upon actual system configuration.
2. Length measurements do not include protrusions. Weight varies with options.
3. Accessories may vary depending on your configuration.
4. This is a simplified drawing and some components are not marked in detail.
5. 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.

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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