

FM07MG

7" ARM A78 + A55 Android Vehicle Mounted PC



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.

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 |

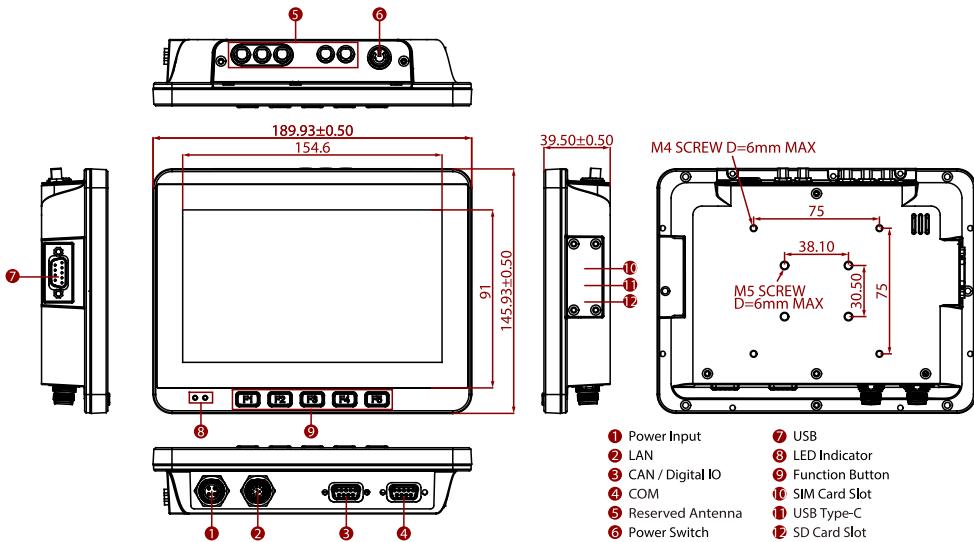
Accessory

| | | | |
|------------------|---|---------------------------|---|
| 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



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.