# FM07MG

## 7" ARM A78 + A55 Android Vehicle Mounted PC



1024x600

#### **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

7.0 inches



Size

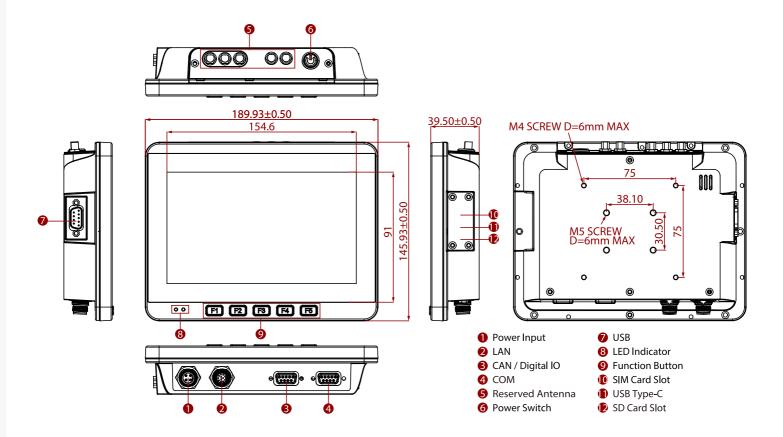
#### **SPECIFICATIONS**

Display Resolution

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 2 x A78 2.0GHz + 4 x A55 2.0GHz         Memory         4GB LPDDR4           Storage         Onboard 32 GB         Operating System         Android 13           Linux Vbountu 22.04 (Optional)         Linux Vbountu 22.04 (Optional)           GPS         GPS/GLONASS (Optional)         RFID         NFC (Optional)           Environment           Operating Humidity         10% to 95% RH         Operating Properature         -20°C to 60°C           Storage         -20°C to 60°C         NIL-STD-810H Method 516.8 Procedure I           Properature           Vibration         MIL-STD-810H Method 514.8 Procedure I         IP rating         IP65           Certification           Certification           Certification           Certification           Certification           Certification           Certification <td< th=""><th></th><th></th><th><b></b></th><th></th></td<>			<b></b>			
Projected Capacitive Multi Touch Screen   System Specification	Contrast Ratio	700:1	Panel Brightness	1000.0 nits		
System Specificatiors           Processor         ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz         Memory         4 GB LPDDR4           Storage         Onboard 32 GB         Operating System         Android 13 Linux Youfu 13 Linux Youfu 12.04 (Optional)           WLAN         Support         WWAN         4 G/LTE (Optional)           GPS         GPS/GLONASS (Optional)         RFID         NFC (Optional)           Environment           Operating Humidity         10% to 95% RH         Operating Temperature         -20°C to 60°C           Storage Temperature         -20°C to 60°C         MIL-STD-810H Method 514.8 Procedure I           Pretigation         MIL-STD-810H Method 514.8 Procedure I         IP rating         IP65           Certification           Certification         CE, FCC           Control           Button (Programmable Function Key Configured by Winset)           In X Power Button, 5x Function Button (Programmable Function Key Configured by Winset)           In X Power Button, 5x Function Button (Programmable Function Key Configured by Winset)           In X Power Button, 5x Function Button (Programmable Function Key Configured by Winset)           In X Power Button, 5x Function Button (Programmable Function Key Configured by Winset) <th>View Angles</th> <th>75,75,75,70</th> <th>Active Area</th> <th>153.6x90 mm</th>	View Angles	75,75,75,70	Active Area	153.6x90 mm		
Processor         ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz         Memory         4GB LPDDR4           Storage         Onboard 32 GB         Operating System         Android 13 Linux Vocto 5.10.104 with QT 5.15 (Optional) Linux Ubuntu 22.04 (Optional)           WLAN         Support         WWAN         4G/LTE (Optional)           GPS         GPS/GLONASS (Optional)         RFID         NFC (Optional)           Environment           Operating Humidity         10% to 95% RH         Operating Temperature         -20°C to 60°C Temperature           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           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           SD Card Slot         1 x Micro SD card slot (Max to 32GB)         SiM Card Slot         1 x SIM Card Slot (Optional)           Audio         1 x Speaker         LAN         1 x LAN 10/100/1000 Mbps (M12 type)           Indicator	Touch / Glass	Projected Capacitive Multi Touch Screen				
Storage     Onboard 32 GB     Operating System Linux Yocto 5.10.104 with QT 5.15 (Optional)       WLAN     Support     WWAN     4G/LTE (Optional)       GPS     GPS/GLONASS (Optional)     RFID     NFC (Optional)       Environment       Operating Humidity     10% to 95% RH     Operating Temperature     -20°C to 60°C       Storage Temperature     -20°C to 60°C     MIL-STD-810H Method 516.8 Procedure I       Vibration     MIL-STD-810H Method 514.8 Procedure I     IP rating     IP65       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     1 x Speaker     LAN     1 x LAN 10/100/1000 Mbps (M12 type)       Indicator     Power     DIDO     DIDO (SXDI ; 3XDO)       Mechanical	System Specification					
Linux Yocto 5.10.104 with QT 5.15 (Optional)	Processor	ARM 2 x A78 2.0GHz + 4 x A55 2.0GHz	Memory	4GB LPDDR4		
GPS GPS/GLONASS (Optional) RFID NFC (Optional)  Environment  Operating Humidity 10% to 95% RH Operating Temperature Storage Temperature Vibration MIL-STD-810H Method 514.8 Procedure I IP rating IP65  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 SD Card Slot 1 x Micro SD card slot (Max to 32GB) SIM Card Slot 1 x SIM Card Slot (Optional)  Audio 1 x Speaker LAN 1 x CANBus  Mechanical	Storage	Onboard 32 GB	Operating System	Linux Yocto 5.10.104 with QT 5.15 (Optional)		
Environment  Operating Humidity 10% to 95% RH Operature Temperature -20°C to 60°C Storage Temperature -20°C to 60°C Shock MIL-STD-810H Method 516.8 Procedure I  Prating IP65  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 SD Card Slot 1 x Micro SD card slot (Max to 32GB)  Audio 1x Speaker LAN 1 x LAN 10/100/1000 Mbps (M12 type)  Indicator Power ODIDO DIDO (SXDI; 3XDO)  Mechanical	WLAN	Support	WWAN	4G/LTE (Optional)		
Operating Humidity 10% to 95% RH Operating Temperature Storage Temperature -20°C to 60°C Shock MIL-STD-810H Method 516.8 Procedure I Prating IP65  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 SD Card Slot 1 x Micro SD card slot (Max to 32GB) SIM Card Slot 1 x Speaker LAN 1 x LAN 10/100/1000 Mbps (M12 type)  Indicator Power ODIDO DIDO (5XDI; 3XDO)  Mechanical	GPS	GPS/GLONASS (Optional)	RFID	NFC (Optional)		
Storage Temperature  Storage Temperature  Vibration MIL-STD-810H Method 514.8 Procedure I  IP rating IP65  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  SD Card Slot 1 x Micro SD card slot (Max to 32GB)  Audio 1x Speaker LAN 1 x LAN 10/100/1000 Mbps (M12 type)  Indicator Power DIDO DIDO (5XDI; 3XDO)  CANBUS 1 x CANBus  Mechanical	Environment					
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  SD Card Slot 1 x Micro SD card slot (Max to 32GB) SIM Card Slot 1 x SIM Card Slot (Optional)  Audio 1 x Speaker LAN 1 x LAN 10/100/1000 Mbps (M12 type)  Indicator Power DIDO DIDO (5XDI; 3XDO)  CANBUS 1 x CANBUS  Mechanical	Operating Humidity	10% to 95% RH		-20°C to 60°C		
Certification  CE, FCC  Control  Button		-20°C to 60°C	Shock	MIL-STD-810H Method 516.8 Procedure I		
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  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	Vibration	MIL-STD-810H Method 514.8 Procedure I	IP rating	IP65		
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  SD Card Slot 1 x Micro SD card slot (Max to 32GB) SIM Card Slot 1 x SIM Card Slot (Optional)  Audio 1 x Speaker LAN 1 x LAN 10/100/1000 Mbps (M12 type)  Indicator Power DIDO DIDO (5XDI; 3XDO)  CANBUS 1 x CANBus  Mechanical	Certification					
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IO Ports  USB Port 2 x USB for DB9 1 X USB Type-C  SD Card Slot 1 x Micro SD card slot (Max to 32GB)  Audio 1x Speaker LAN 1 x LAN 10/100/1000 Mbps (M12 type) Indicator Power DIDO DIDO DIDO (5XDI; 3XDO)  CANBUS 1 x CANBus  Mechanical	Control					
USB Port  2 x USB for DB9 1 X USB Type-C  SD Card Slot  1 x Micro SD card slot (Max to 32GB)  Audio  1 x Speaker  LAN  1 x LAN 10/100/1000 Mbps (M12 type)  Indicator  Power  DIDO  DIDO (5XDI; 3XDO)  CANBUS  Mechanical	Button					
1 X USB Type-C  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	IO Ports					
Audio         1x Speaker         LAN         1 x LAN 10/100/1000 Mbps (M12 type)           Indicator         Power         DIDO         DIDO (5XDI ; 3XDO)           CANBUS         1 x CANBus           Mechanical	USB Port		Serial Port	1 x RS232/422/485 (Default RS232)		
Indicator     Power     DIDO     DIDO (5XDI ; 3XDO)       CANBUS     1 x CANBus       Mechanical	SD Card Slot	1 x Micro SD card slot (Max to 32GB)	SIM Card Slot	1 x SIM Card Slot (Optional)		
CANBUS 1 x CANBus  Mechanical	Audio	1x Speaker	LAN	1 x LAN 10/100/1000 Mbps (M12 type)		
Mechanical	Indicator	Power	DIDO	DIDO (5XDI ; 3XDO)		
	CANBUS	1 x CANBus				
Dimension         190 x 146 x 40 mm         Weight         1.25 kg	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.