FM07A, 7-inch Vehicle Mounted Computer

A Rugged Vehicle Mounted Computer for Data Collection in Warehouse and Logistics Applications

The FM07A, Winmate's rugged 7-inch vehicle mounted computer, brings a compact design to a leading class of vehicle-mount computers without making any compromises. The compact size of the device allows for the vehicle operator to maintain unobstructed line-of-sight during operations, increasing efficiencies and minimizing errors. The VMC contains an Android-based NXP i.MX 6 Dual Core 1 GHz processor and a 1024 x 600 resolution P-Cap multi-touch screen to allow you to manage your data easily in a user-friendly package. The FM07A is suited for a variety of industrial applications, from warehouse management, transportation logistics, to airport ground handling operations.

Highlights

- NXP i.MX 6 Dual Core 1 GHz Processor
- 7" 1024 x 600 panel with projected capacitive multi-touch screen
- Wide power input 9-24V DC with ignition
- M12 waterproof connectors
- IP65 waterproof and dustproof
- Wi-Fi, BT, WLAN and GPS for wireless connectivity
- Wide operating temperature range -20°C ~ 60°C
- Shock and vibration resistance according to MIL-STD-810G

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Display Specification

Size	7-inch display
Resolution	1024 x 600
Brightness	1000 nit
Touch	Projected capacitive multi-touch
Contrast Ratio	700:1
Viewing Angle	-75~75(H);-75~70(V)

System Specification

Processor	NXP i.MX 6 Dual Core 1 GHz Processor
System Memory	1GB LPDDR3 [1]
Storage	16GB eMMc
Operating System	Android 6.0

Wireless Communication

WLAN	802.11 a/b/g/n/ac
BT	BT
GPS	u-Blox Neo-6Q
WWAN	Optional 4G/ LTE or 3G

Interface

Computer	1 x RS232
	1 x Gigabit Ethernet LAN 10/100/100 Mbps (M12 type)
	1 x DIDO, CANBus
	1 x Power input 9-24V DC with ignition
	1 x SIM Card Slot (Optional for WWAN)
	2 x USB
	Wi-Fi Antenna
	Optional WWAN Antenna
	Optional GPS Antenna

Keyboard and Input

Touch	Projected capacitive
Button	• On-screen QWERTY keyboard
	• Front : 5 x function key
	(Programmable function key configured by Winset Utility)
	• Top : 1 x Power button
LED Indicators	Power

Audio

Speaker	1 Watt speaker, located on the back cover

Mechanical and Environment

Dimension (W x L x H)	189.93 x 145.93 x 39.8 mm (7.47 x 5.75 x 1.56 inches) [2]
Weight	1.0 kg (2.20 lbs)
Housing	Back cover aluminum housing
Mounting	RAM Mount, VESA Mount (75x75mm)
Cooling System	Fanless design
Operating Temperature	-20°C to 60°C (-4° to 140° F)
Humidity	10% to 95% RH, non-condensing
IP Proof	IP65, dustproof and waterproof
Shock	MIL-STD-810G Method 516.6 Procedure I, 30 g for 18 ms, 300 m/s2
Vibration	MIL-STD-810G Method 514.6 Procedure I, 1.60/ 1.96/ 2.18 g rms for XYZ/ 5-500 Hz
Certifications	CE, FCC, E-MARK

Power Management

Power Input	9V-24V, with ignition control

Accessories

Standard Accessories [3]

User Guide	9152111I109D
Driver CD	9171111I104E
M12 Power Cable	94J004L040K1
M12 LAN Cable	94I0120080K0
USB Cable	9483098080K0
RS232 Cable	94G3094090K2
CANBUS Cable	94E215L140K0
WIFI Antenna	397SM000000D
Power Converter Cable	94J602G030K2
Power Adapter	922D050W12VA

Optional Accessories

Audio Cable	94E215R060K0
WWAN Antenna	397SM000000C
GPS Antenna	397SM000000G

Drawing [4]

UNIT:mm

1. 9-24V DC with Ignition
2. LAN
3. CANBUS / DIDO
4. COM
5. SIM Card Slot
6. WWAN Antenna (Optional)
7. GPS Antenna
8. Wi-Fi Antenna
9. Power Button
10. 2 x USB
11. LED
12. Speaker
13. OTG
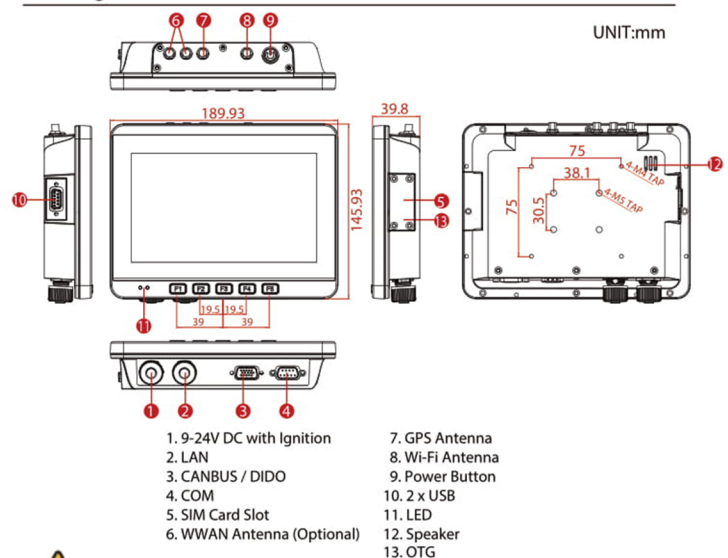
⚠️ **Caution** Do not expose bare skin to this product when handling this unit in extreme hot or cold environments

1. Total usable memory will be less depending 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.