

FM10A, 10.4-inch Vehicle Mounted Computer

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

FM10A is a rugged vehicle mounted computer delivers flexibility and mobility in a vehicle-mount form factor, designed to easily be removed from the dock with a one-click top latch. Since the dock remains attached to the vehicle, this device can easily be moved or switched from one vehicle to another vehicle. FM10A designed to fit seamlessly into forklifts and other warehouse vehicles, will help minimize errors, streamline ordering and inventory management, and improve operational efficiencies.

The processing power comes from Freescale's Cortex A9 i.MX6 dual core processor. The computer features a brilliant projected capacitive touch screen, and offers 1024 x 768 pixel resolution.



Highlights

- Freescale Cortex A9 i.MX6 Dual Core Processor
- 10.4" 1024 x 768 Panel with projected capacitive touch screen
- · Field replaceable front panel to reduce service costs
- · Magnesium alloy housing
- · Built-in Wi-Fi and Bluetooth 4.0
- · IP65 waterproof and dustproof
- · Wide range operating temperature

Order Information			
	3G	4G	Heater
FM10A	Optional	Optional	N/A
FM10A-HT	Optional	Optional	Default





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Display Specification

Brightness

10.4-inch display (4:3) Resolution 1024 x 768

400 nit Touch Projected capacitive (p-cap) touch

Contrast Ratio 88/88/88/88 Viewing Angle · Light sensor Technology

System Specification

Freescale Cortex A9 i.MX6 Dual Core, 1.0 GHz Processor

System Memory 1G LPDDR3 Storage 16GB eMMC

Additional storage with SD card slot

Operating System Android 6.0 Ubuntu 16.04

Kernel 3.10.52

Wireless Communication

802.11 a/b/g/n/ac Bluetooth

GPS u-Blox Neo-6Q located on the Vehicle Dock

WWAN Optional 4G/LTE or 3G

Interface

Compute 1 x SIM Card Slot 1 x SD Card Slot

1 x USB OTG

1 x 12V DC in power input jack Docking

1 x COM 1, 1 x COM 2 1 x USB 2.0 port (support two USB 2.0)

1 x CANBus or 1 x Audio

1 x 400Mbps LAN port

Optional PoE as a Power sourcing equipment (PSE)

support 802.3at Type 2 1 x Power connector

SMA Connector(female) for external antenna (WiFi, GPS (optional), WWAN (optional))

Keyboard and Input

• Projected capacitive (P-Cap),

support stylus

· On-screen QWERTY keyboard Button

1 x power,6 x function key

(Programmable function key configured by Hottab Utility) Wi-Fi, Bluetooth, UPS battery, HDD, Blanking, Heater

LED Indicators

Audio

Speaker High power speaker (3W * 2),

located on the docking

Cameras

Web Camera 2MP webcam

Security Function

Mobile Device Management SOTI Mobicontrol compatible 3

Mechanical and Environment

Dimension (W x L x H) Computer: 268 x 214 x 35 mm (10.6 x 8.42 x 1.37 inches)

Docking: 202 x 245 x 52 mm (7.9 x 9.6 x 2.04 inches) Computer 1.7 kg (3.75 lbs)

Weight Docking 1.6 kg (3.53 lbs) Housing Magnesium alloy housing Cooling System Fanless design

Operating Temperature With optional heater : -30°C to 50°C (-22°F to 122°F)

AC mode: -20°C to 50°C (-4°F to 122°F)
Batter mode: -10°C to 50°C (14°F to 122°F)

Storage Temperature -30°C to 60°C (-22° to 140°F) Humidity IP Proof 5% to 90% RH, non-condensing IP65 certified, dustproof and waterproof Support EN62262 IK70 rating Impact

MIL-STD-810G Method 516.6 Procedure I Shock Vibration MIL-STD-810G Method 514.6 Procedure I

Compliant with EN 61000-4-2, **ESD**

enhanced ESD to ±12kV direct & ±15kV air CE, FCC, UL60950-1, EN60950-1, PTCRB, FCC Certifications (Electromagnetic Emissions), IC (ICES-003)

Power Input 10V-60V

with isolation power and ignition control

UPS Battery 11.
UPS Battery Operating Time 11.1V typ Battery (3S1P) Minimum 30 minutes

Accessories

Standard Accessories Power Cable with Fuse

98K000A0006O 84 Watt Adapter 922D084W12V1 Power Converter Cable 94J602G030K2 USB Cable 9483098080K0 Wi-Fi Antenna (1 pcs) 39700000000G External Antenna Fixing Bracket 88111T201203 91711111102L Driver CD Quick Start Guide 9152111I101B

Optional Accessories

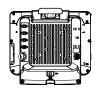
DC Power Jack Cable 120 Watt Adapter (for Heater Mode) 94J0086020K0 90PO12120005 RS232 Cable 94G3094090K2 Audio Cable 94E215R060K0 CAN Bus Cable 94E2150090K0 LAN Cable 94I0080080KF Key for Vehicle Dock 9B00000007N WWAN Antenna (1 pcs) 39700000000H 94JL01L01000 Fuse Kit Device Mounting Kit 1 (No Drill) 98K000A0005Y Device Mounting Kit 2 (Drill)
Mounting Kit 3 (Keyboard Mounting) 98K000A0006P 98K000A0005X Magnetic Multi-Band Combo Antenna -VM10S 397SM0000006 LTE MIMO/GNSS- VM240 39700000000M GPS & LTE MIMO Combo Antenna- VM9C 397SM0000008

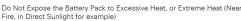
Stylus Kit + Screw 98K000A0005T

Drawing



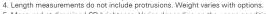






Do not expose bare skin to this product when handling this unit in extreme hot or cold environments

- 1. Total usable memory will be less depending upon actual system configuration
- 2. CANBus and audio are mutually exclusive.
- 3. SOTI is available upon request



- 5. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached."
- 6. Accessories may vary depending on your configuration.



Release Date: 15-Aug-2019 V1.8



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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