FM08, 8-inch Vehicle Mounted Computer
With QWERTY Keypad

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

FM08 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. FM08 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 Intel's quad core atom E3845 processor. The computer features a brilliant anti-scratch resistive touch screen, offers 800 x 480 pixel resolution, and has an integrated QWERTY keypad for fast and convinient data input.

Highlights

- Intel Quad Core Atom E3845 Processor
- 8” 800 x 480 Panel with anti-scratch resistive touch screen
- Field replaceable front panel to reduce service costs
- QWERTY keypad
- Magnesium alloy housing
- Built-in Wi-Fi and Bluetooth 4.0
- IP65 waterproof and dustproof
- Wide range operating temperature

Order Information			
	4G	Heater	High Brightness Panel
FM08	N/A		N/A
FM08-LA	4G LTE		N/A
FM08-LAHB	4G LTE		Yes
FM08-HB	N/A		Yes

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Display Specification

Size	8-inch display (16:9)
Resolution	800 x 480
Brightness	500 nit
Touch	Anti-scratch resistive touch
Contrast Ratio	1100:1
Viewing Angle	80/80/80/80
Technology	• Light sensor • Intel HD Graphics (built-in CPU) video controller

System Specification

Processor	Intel Quad-Core Atom E3845 Processor , 1.91 GHz
System Memory	4GB SODIMM DDR3L-1600 (up to 8GB) [1]
Storage	64GB M.2 solid state drive SSD Optional up to 256 GB Additional storage with SD card slot
Operating System	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows 7 Professional for Embedded System Windows Embedded Standard 7

Wireless Communication

WLAN	802.11 a/b/g/n/ac
BT	BT 4.0
GPS	u-Blox Neo-6Q located on the Vehicle Dock
WWAN	Optional 4G/ LTE or 3G.

Interface

Computer	1 x SIM Card Slot 1 x SD Card Slot 1 x USB 3.0 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 / 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

Touch	• Resistive,support stylus
Button	• QWERTY keyboard 1 x power, 10 x function key (Programmable function key configured by Hottab Utility)
LED Indicators	Wi-Fi, Bluetooth, UPS battery, HDD, Blanking, Heater

Audio

Speaker	High power speaker (3W * 2), located on the docking

Cameras

Web Camera	2MP webcam, only available for Windows 7/ 8.1/ 10 IoT

Security Function

Mobile Device Management	SOTI Mobicontrol compatible [2]

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) [3]
Weight	Computer 1.6 kg (3.53 lbs) 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	5% to 90% RH, non-condensing
IP Proof	IP65 certified, dustproof and waterproof
Impact	Support EN62262 IK70 rating
Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I
ESD	Compliant with EN 61000-4-2, enhanced ESD to ±12kV direct & ±15kV air
Certifications	CE, FCC, UL60950-1, EN60950-1, PTCRB, FCC (Electromagnetic Emissions), IC (ICES-003)

Power Management

Docking Power Input	10V-60V, with isolation power and ignition control
Tablet Power Input	12V DC In
UPS Battery	7.6V typ Battery (2S1P)
UPS Battery Operating Time	Minimum 30 minutes [4]

Accessories

Standard Accessories

Power Cable with Fuse	98K000A0006O
Adapter	922D084W12V1
Power Converter Cable	94J602G030K2
USB Cable	9483098080K0
Wi-Fi Antenna (1 pcs)	39700000000G
External Antenna Fixing Bracket	88111T201203
Driver CD	9171111I103H (Win 7 Professional) 9171111I103A (Win 8.1 Industry) 9171111I103B (Win 10 IoT)
Quick Start Guide	915211101024

Optional Accessories [5]

DC Power Jack Cable	94J0086020K0
Adapter (for heater use)	90PO12120005
RS232 Cable	94G3094090K2
Audio Cable	94E215R060K0
CANBus Cable (w/o DIDO)	94E215L030K0
LAN Cable	94I0080080KF
Key for Vehicle Dock	9B000000007N
WWAN Antenna (1 pcs)	39700000000H
Fuse Kit	94JL01L01000
UHF Fixed Reader	9B000000006P
Magnetic Multi-Band Combo Antenna- VM10S	397SM0000006
LTE MIMO/GNSS- VM240	39700000000M
GPS & LTE MIMO Combo Antenna- VM9C	397SM0000008
Stylus Kit + Screw	98K000A0005T

Drawing [6]

Caution

Do Not Expose the Battery Pack to Excessive Heat, or Extreme Heat (Near Fire, in Direct Sunlight for example)
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. SOTI is available upon request.
3. Length measurements do not include protrusions. Weight varies with options.
"4. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached."
5. Accessories may vary depending on your configuration.
6.This is a simplified drawing and some components are not marked in detail.