

FM07, 7-inch Vehicle Mounted Computer

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

FM07 is a rugged vehicle mounted computer delivering flexibility and mobility in a vehicle-mount form factor; designed to be easily mounted on a vehicle. FM07 fits seamlessly into forklifts and other warehouse vehicles. It will help minimize errors, streamline ordering and inventory management, and improve operational efficiencies. The processing power comes from Intel® Celeron N3350 (Apollo Lake) processor. The computer features a brilliant projected capacitive multi-touch screen, and offers 1024 x 600 pixel resolution.



Highlights

- Intel® Celeron N3350 (Apollo Lake) Processor
- 7" 1024 x 600 panel with projected capacitive multi-touch screen
- Wide power input 9-36V DC with ignition
- M12 waterproof connectors
- Front IP65 waterproof and dustproof
- Wi-Fi, BT WLAN and GPS for wireless connectivity
- Wide operating temperature range -20°C to 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	75/75/75/70

System Specification

Processor	Intel® Celeron N3350, 2M Cache
System Memory	2GB SODIMM DDR3L-1600 (up to 8GB) ¹
Storage	64GB M.2 solid state drive SSD
Operating System	Windows® 10 IoT Enterprise, Ubuntu 18.04

Wireless Communication

WLAN	802.11 a/b/g/n/ac
GPS	u-Blox Neo-M8N
WWAN	Optional LTE : B1/B2/B3/B4/B5/B7/B8/B13/B17/B20 WCDMA/HSDPA/HSUPA/HSPA+ : 850 MHz/900 MHz/1700 MHz (AWS)/ 1900 MHz/2100 MHz GPRS/EDGE
Bluetooth	Bluetooth 4.0

Interface

Computer	1 x RS232 1 x Gigabit Ethernet LAN 10/100/100 Mbps (M12 type) 1 x DIDO, CANBus 1 x Power input 9-36V DC with ignition 1 x SIM Card Slot 2 x USB Wi-Fi Antenna Bluetooth Antenna Optional WWAN Antenna Optional GPS Antenna
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Keyboard and Input

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

Audio

Speaker	1 Watt speaker, located on the back cover
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Mechanical and Environment

Dimension (W x L x H)	188.75 x 144.75 x 39.5 mm (7.43 x 5.70 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	Front IP65, dustproof and waterproof
Shock	MIL-STD-810G Method 516.6 Procedure I, 30 g for 18 ms, 300 m/s ²
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-36V, with ignition control
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Accessories

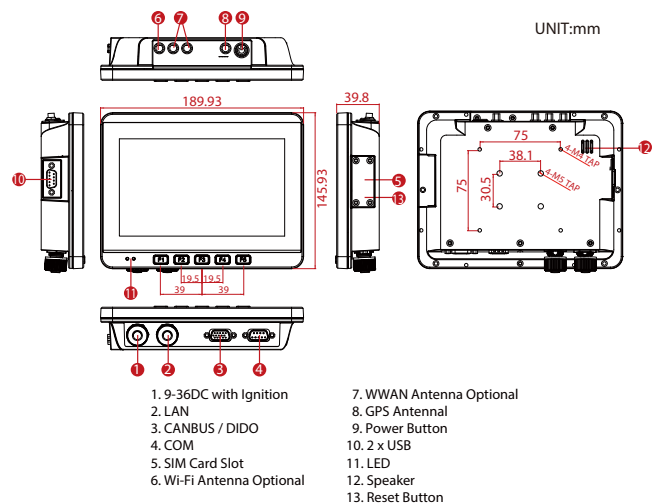
Standard Accessories ³

User Guide	9152111109C
M12 Power Cable	94J004L040K1
M12 LAN Cable	94I0120080K0
USB Cable	9483098080K0
WiFi Antenna	397SM0000002

Optional Accessories

RS232 Cable	94G3094090K2
CANBUS Cable	94E2150090K0
Audio Cable	94E215R060K0
Mounting Kit 1 – No Drill Solution	98K000A0005Y
Mounting Kit 2 – Drill Solution	98K000A0006P
Mounting Kit 3 – Keyboard Mounting	98K000A000AO
WWAN Antenna	397SM000000C
GPS Antenna	397SM000000G

Drawing ⁴



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

- Total usable memory will be less depending upon actual system configuration.
- Length measurements do not include protrusions. Weight varies with options.
- Accessories may vary depending on your configuration.
- This is a simplified drawing and some components are not marked in detail.

Release Date: 12-Feb-2020 V1.9

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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