FM07P, 7-inch Vehicle Mounted Computer

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

FM07P is a rugged vehicle mounted computer delivering flexibility and mobility in a vehicle-mount form factor; designed to be easily mounted on a vehicle. FM07P 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 optional isolation power solution
- 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
# FM07P, 7-inch Vehicle Mounted Computer

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## Display Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>7-inch display</td>
</tr>
<tr>
<td>Resolution</td>
<td>1024 x 600</td>
</tr>
<tr>
<td>Brightness</td>
<td>1000 nits</td>
</tr>
<tr>
<td>Touch</td>
<td>Projected capacitive multi-touch</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>700:1</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>75/75/75/70</td>
</tr>
</tbody>
</table>

## System Specification

- **Processor**: Intel® Celeron N3350, 2M Cache
- **System Memory**: 2GB SODIMM DDR3L-1600 (up to 8GB)  
- **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 4G/LTE or 3G
- **BT**: BT

## Interface

- **Computer**: 2 x RS232; 1 x RS485
  1 x Gigabit Ethernet LAN 10/100/100 Mbps
  1 x DIO/D, CANBus
  1 x Power input 9-36V DC with ignition
  1 x SIM Card Slot (Optional for WWAN)
  2 x USB
  1 x HDMI
  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, Storage

## Audio

- **Speaker**: 1 Watt speaker, located on the back cover

## Power Management

- **Power Input**: 9V-36V, with ignition control

## 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)
- **Weight**: 1.0 kg (2.20 lbs)
- **Housing**: Back cover aluminum housing
- **Mounting**: RAM Mount, VESA Mount (75x75 mm)
- **Cooling System**: Fanless design
- **Operating Temperature**: -20°C to 60°C (-4° to 140° F)
- **Storage Temperature**: -30°C to 70°C (-22° to 158° F)
- **Humidity**: 10% to 95% RH, non-condensing
- **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

## Isolation Power Solution (Optional)

- **Power Rating**: 9-36V
- **Isolation**: Support
- **Ignition**: Support
- **Power consumption**: 40W
- **Surge protection**: 3.5KV
- **Load dump protection**: 200 V

## Drawing

![Drawing](image)

**UNIT:mm**

- 1. LAN
- 2. HDMI
- 3. 2 x USB
- 4. RS232
- 5. CANBUS / DIO / RS485
- 6. 9-36DC with Ignition
- 7. WWAN Antenna (Optional)
- 8. GPS Antenna (Optional)
- 9. Wi-Fi Antenna
- 10. Power Button
- 11. RS232
- 12. SIM Card Slot
- 13. Audio
- 14. LED
- 15. Speaker

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**Caution**

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

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**Release Date: 06-Aug-2020 V1.0**

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.