

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

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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 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 DIDO, 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

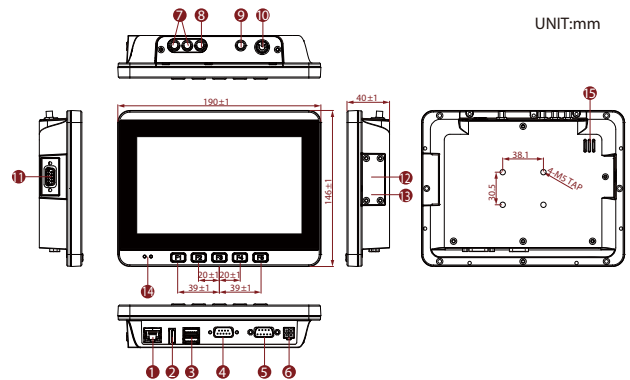
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|-----------------------|--|
| Dimension (W x L x H) | 188.75 x 144.75 x 39.5 mm (7.43 x 5.70 x 1.56 inches) ² |
| Weight | 1.0 kg (2.20 lbs) |
| Housing | Back cover aluminum housing |
| Mounting | RAM Mount, VESA Mount (75x75mm) |
| Cooling System | Fanless design |
| Operating Temperature | -20°C to 60°C (-4° to 140° F) |
| 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/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 |

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 ³



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



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.

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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