

8" Windows 11 Fleet Management Terminal with Intel® Alder Lake-N97 Processor

Overview

FMT-661M is a brand new fleet management terminal featuring an 8-inch touchscreen, and an Intel® Alder Lake-N97 processor. It comes pre-installed with the Windows 11 operating system for fleet management applications. WiFi, LTE/5G, Bluetooth and GNSS modules can be all integrated into the FMT-661M for real-time data exchange, navigation and communication. With its 10-point capacitive touchscreen, users can enjoy user-friendly and efficient operations during their daily tasks.

Features

- 8" TFT-LCD with projected capacitive touchscreen
- Rugged aluminum enclosure and fanless design
- Wide range 8-36 VDC power input
- Flexible expansion capability for Wi-Fi, Bluetooth, LTE, 5G, GNSS, and CAN2.0B
- Robust M12 I/O interface
- IP65 protection, MIL-STD-810H shock & vibration compliant



I/O Interfaces

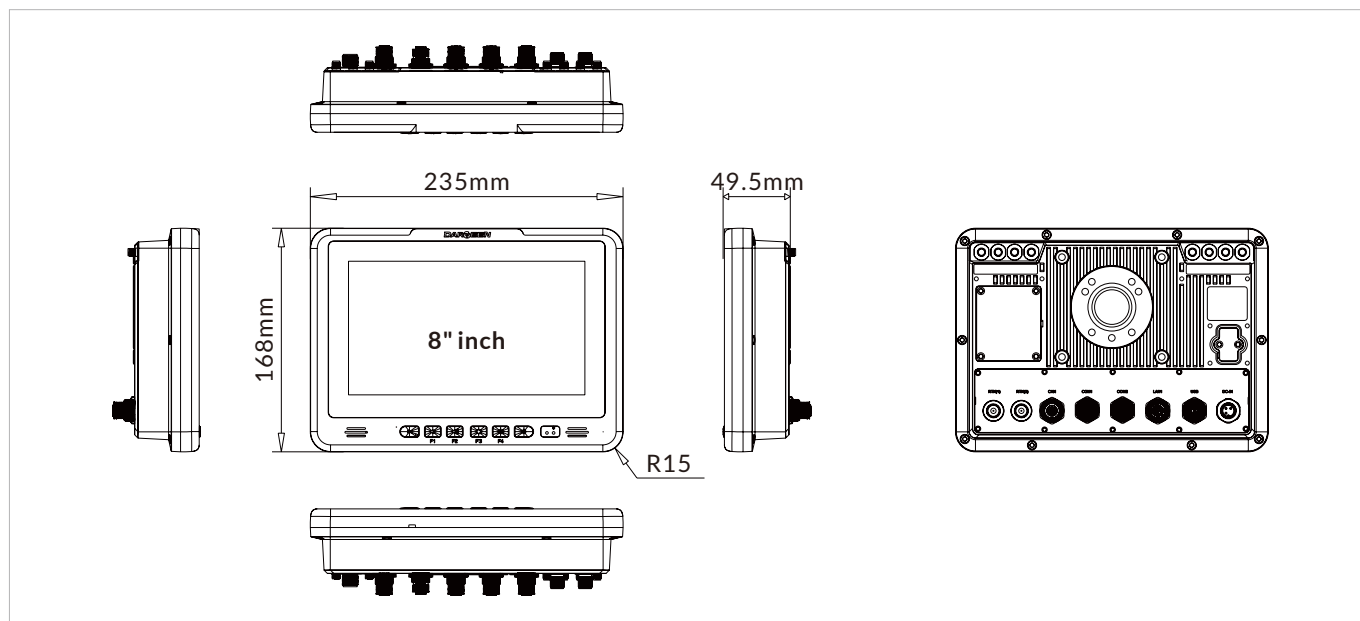


Specifications

Display	
Size	8 inch (16:9)
Touch Type	Projected capacitive multi touch
Display Type	TFT LCD
Resolution	1280 x 720
Luminance	750 nits
Contrast Ratio	1000: 1
View Angles	85 (left), 85 (right), 85 (up), 85 (down)
Color	16.2M
System	
CPU	Intel® Alder Lake-N97, Intel 7, 4-core, up to 3.6GHz
Chipset	Intel® Alder Lake-N Platform
Memory	4GB DDR4-2666 SO-DIMM (up to 16GB)
Storage	128GB M.2 2280 SSD (up to 2TB)
Graphics	Intel® UHD Graphics
BIOS	AMI UEFI BIOS
Keypad & Keyboard	
Keyboard	Power on/off, brightness adjustment, volume adjustment, 4x function keys, function switch key, power LED indicator
I/O Ports	
USB	2x USB 2.0 (M12)
Serial	2x RS-232 (M12)
Ethernet	1x GbE LAN (M12)
SIM Card Slot	1x SIM card slot, 2x SIM card slot (optional)
CAN bus	2x CAN2.0B (M12, optional)
Antenna	4x SMA connectors for Wi-Fi, Bluetooth, 4G, GPS (optional) 7x SMA connectors for Wi-Fi, Bluetooth, 5G, GPS (optional) 2x TNC connectors for RTK (optional)
RF Communication	
Wi-Fi	Wi-Fi 6E: 802.11a/b/g/n/ac/ax, 2.4G/5G/6G (optional) Wi-Fi 7: 802.11a/b/g/n/ac/ax/be, 2.4G/5G/6G (optional)
Cellular	4G, LTE (optional), 5G, NSA/SA (optional)
Bluetooth	Bluetooth 5.3 (depends on Wi-Fi 6E, optional), Bluetooth 5.4 (depends on Wi-Fi 7, optional)
GNSS	GPS, GLONASS, Galileo, BeiDou (optional)
Audio	
Speaker	8Ω/1W, dual studio speakers
Power	
DC Input	8 to 36VDC
Power Consumption	18W (Typ.)
Power Mode	ATX (default), AT
Operating System	
Windows	Windows 11 IoT Enterprise LTSC, Windows 11 Pro
Mechanical	
Dimensions (W x D x H)	235 x 168 x 49.5 mm (9.25 x 6.61 x 1.95 inches)
Weight (N.W.)	1.55 kg (3.42 lbs)
Mounting Mode	VESA 75
Material	Die-casting Aluminum with Heavy Duty Metal

Environment	
Operating Temperature	-30 to 60°C (-22 to 140°F)
Storage Temperature	-40 to 70°C (-40 to 158°F)
Relative Humidity	95% @ 70°C (158°F), non-condensing
Shock	MIL-STD-810H Method 514.8 Procedure I
Vibration	MIL-STD-810H Method 516.8 Procedure I
IP Rating	IP65 compliant
Certification	
EMC	CE, FCC

Dimensions



Ordering Information

Part No.	Description
FMT-661M-D9EAK-A01	FMT-661M,projected capacitive touch panel, Intel® Alder Lake-N97, 4GB RAM,128GB M.2, WiFi6E,Bluetooth,4G,GPS,4x SMA
FMT-661M-D9PAK-A01	FMT-661M,projected capacitive touch panel, Intel® Alder Lake-N97,4GB RAM,128GB M.2, WiFi6E,Bluetooth,4G,GPS,CAN,4x SMA
FMT-661M-D9TAL-A01	FMT-661M,projected capacitive touch panel, Intel® Alder Lake-N97,4GB RAM,128GB M.2, WiFi6E,Bluetooth,5G,RTK,CAN,6x SMA,2x TNC

Optional Accessories

Part No.	Description
A.02.002.000096	Power cord, 0P to 3P, M12-3P-female, 2.0meters, RBY, 90°, 3CZ01029316
A.02.002.000097	Power cord, 0P to 3P, M12-3P-female, 5.0meters, RBY, 90°, 3CZ01029316
A.02.004.000061	Rod antenna, SMA(Male), 3dB
A.02.004.000031	GPS antenna, SMA(Female), GPS+Beidou, 3.0meters
A.03.004.000270	External cable(2xUSB), 500mm, M12-8P(M) to USB(F)x2, CZ0102945
A.03.004.001380	External cable(1xLAN), 500mm, M12-8P(X-Code(M)) to RJ45(F), 3CZ01029306
A.03.004.001381	External cable(1xRS232), 500mm, M12/12P(M) to DB9(M) Connector, 3CZ01029305
A.03.004.001534	External cable(2xCAN), 500mm, M12/5P(M) to Open, 3CZ01029354