



EMDOOR I87J v.3 - Windows field tablet with an 8-inch screen, LTE modem, GPS, NFC, Bluetooth, WiFi, and a powerful 5000mAh battery - for mobile workers and service technicians

Category:	UMPC - Ruggedized
Manufacturer:	EMDOOR
Operating System:	Windows 11 IOT
Display:	8"
Brightness:	550 nits
Processor:	Intel Jasper Lake processor Celeron N5100
Memory:	8GB
Hard Drive:	128GB
Flash Memory:	---
Touch screen:	Capacitive 5 - point touch
Durability:	IP65
Drop:	1,22 m
Shock:	MIL-STD-810G
Vibration:	MIL-STD-810G
Temperature:	Temp. Operating -20 TO 60Temp. Storage -30 TO 70

Humidity:	0%-95%
1D barcode scanner (reader):	---
2D barcode scanner (reader):	Honeywell N4680*(optional)
RFID scanner (reader):	NFC 13,56MHz
Other:	-----
Battery:	5000mAh
Working time on battery:	About 7 hours (at 50% brightness and volume, 1080P video playback).
Fast battery replacement ability:	Yes
HotSwap battery:	No
LAN:	No
WLAN:	802.11 a/b/g/n/ac (2.4G/5.8G)
Bluetooth:	Bluetooth 5.0
WAN:	4G LTE FDD: B1/B3/B7/B8/B20 WCDMA: B1/B5/B8 GSM: B3/B8 LTE-TDD: B40
GPS:	GPS GLONASS
Camera:	Rear: 8MpxFront: 5Mpx
In/Out:	USB Type-C 3.1 x 1, USB 3.0 Type-A x 1, SIM Card x 1, TF Card x 1, 12PIN Pogo Pin x 1, Jack 3.5mm x 1, HDMI 2.0a Mini x 1
Optional accessories:	wrist strap/handle, car mount, docking station, wall charger
Docking station connector:	Yes
VESA standard – holders and mounts support:	No
COM port:	No
Magnetic card reader (MSR):	No
Microchip card reader:	No
Contrast:	-----
Graphics card:	Intel HD Graphics Gen 11 LP
Chipset:	N5100
BIOS:	-----

Casing material:	ABS/PC
Flash Card Reader:	TF Card
CD/DVD:	-----
Audio:	Built-in speaker
Keyboard:	Onscreen
Additional Navigation Devices :	-----
Color:	Black
Swivel Hinge:	No
VGA out:	No
TV Out:	No
TV Tuner:	No
Security:	IP65, MIL-STD-810G
Waterproof:	IPX5
Sand and dust:	IP6X
Size:	236.7 x 155.7 x 20mm
Fanless casing:	Yes
Weight:	910g

Product from the Archive - production finished

EMDOOR I87J



SPECIFICATION

RESISTANCE

DATA COLLECTING

WIRELESS COMMUNICATION

APPLICATION

ACCESSORIES AND AVAILABLE VERSIONS

The Emdoor I87J is a modern, waterproof industrial tablet designed for use in extreme conditions. Its specially designed, reinforced construction meets IP65 and MIL-STD-810G standards, ensuring the device is resistant to dust, water, and drops.

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SPECIFICATION

Emdoor I87J

Processor	Intel Jasper Lake N5100
Operating system	Windows 11 IOT
RAM	8GB
ROM	128GB
Battery	5000mAh
Communication	4G LTE Bluetooth 5.0 Wi-Fi GPS NFC
Display	8" 1280×800, 550 nits brightness, 16:10
Touch screen	Capacitive (5-point)
Camera	5 + 8 Mpx

Emdoor I87J

Protection	IP65
SIM card	1 x Nano SIM
TF Card	microSD/TF (max 128GB)
Graphics card	Intel HD Graphics Gen 11 LP
Permanent connections	USB Type-C USB 3.0 Type-A 3.5mm Audio Jack HDMI mini
2D scanner	Honeywell N4680* (optional)



Detailed device specification is available in the "Technical data".

This drop-resistant tablet features a powerful and energy-efficient Intel Jasper Lake N5100 processor, ensuring smooth and stable operation even in demanding conditions. Thanks to its modern architecture, the system is perfectly suited to technical, service, and field applications.

The processor combines high processing power with low energy consumption, resulting in longer battery life and reliability in everyday use. This rugged tablet with this processor is the ideal tool for work in the field, warehouse, or industrial facility.

Ergonomic design



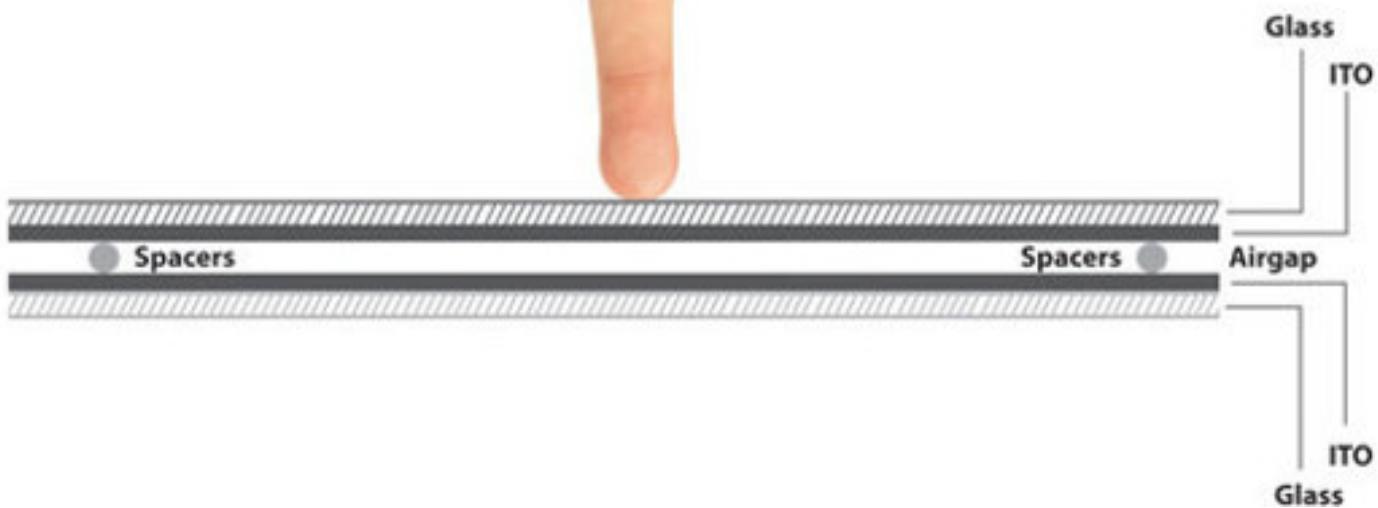
237mm

The Emdoor I87J tablet for uniformed services was created with durability and comfort in mind. Its slim and durable casing and stylish design make it ideal for industrial and field use. The compact size was carefully considered to ensure the rugged tablet is both handy and ergonomic. The non-slip surface ensures this modern tablet fits securely in the hand, while reinforced corners increase resistance to drops and impacts, protecting the device from damage.

Dimensions	236.7mm x 155.7mm x 20mm
Net weight	910g



Capacitive screen



The capacitive screen of the EMDOOR I87J tablet doesn't respond to direct pressure on the surface, but rather detects changes in the electrostatic field at the point of touch. This solution allows for exceptionally precise and sensitive operation, even with a light touch. Additionally, the multitouch technology allows for simultaneous use of multiple touch points, increasing work comfort and enabling intuitive operation of the shock-resistant tablet with multiple fingers simultaneously – even while wearing work gloves.

Built-in connectors



The splash-resistant Emdoor I87J tablet offers a comprehensive set of essential ports and connectors essential for work in industrial plants and construction companies. It features a fast USB-C 3.1 port, standard USB 3.0, an audio jack, and a HDMI port mini.

Front camera

Cutsom ke



The extremely durable Emdoor I87J features a set of physical buttons (volume, home, and one programmable button).

pogo pin interface

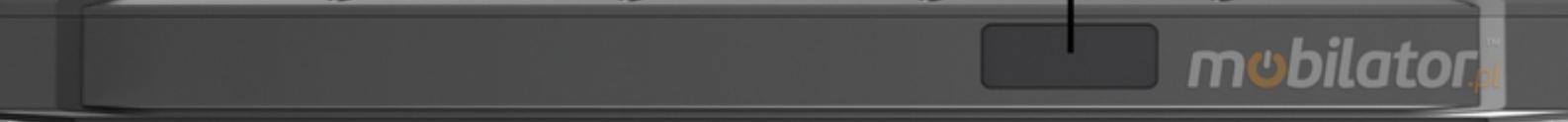


The POGOPIN connector allows you to quickly connect a military tablet to the docking station.

DATA COLLECTING

Barcode scanner *(
optional)

Scan window



A barcode reader installed in a warehouse tablet allows for reading, decoding, and transmitting data stored in barcodes to a computer. Thanks to its dynamic scanning capabilities and wide reading range, the mobile service tablet accurately collects data, helping to increase work speed and efficiency. The entire system can be quickly deployed, as the simplified installation procedure and intuitive, user-friendly design make setting up the scanner very easy. Integrated versions use the Honeywell N4680 module.



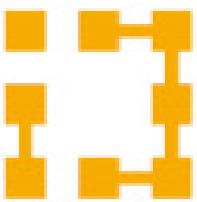
2D

*

Honeywell N4680

NFC

NFC 13.56MHz



Emdoor

NFC (Near Field Communication) technology is a short-range wireless communication standard that enables data exchange over a distance of a few centimeters. The Emdoor I87J wholesaler tablet is equipped with a 13.56 MHz NFC module, compliant with ISO/IEC 14443A/B, 15693, 18092 standards. NFC is suitable for applications such as access control, employee authorization, logistics, and payment acceptance. A modern tablet for uniformed services such as the police, border guard, fire department, and municipal guard – it enables tag reading and compatibility with smart card systems with a range of up to 2-4 cm.

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RESISTANCE

IP65



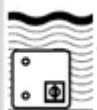
The IP65 standard, which this rugged, heavy-duty tablet meets, determines the degree of protection provided by the device's housing against factors such as access to hazardous parts inside the housing, ingress of solid foreign objects, and splashes or jets of water from any direction. Thanks to its IP65 compliance, the Emdoor I87J military tablet is suitable for both indoor and outdoor use, regardless of weather conditions.

Firts digit

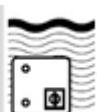
Protection level

Second digit

No special protection	0	0	No special protection
Protection from solid objects greater than 50mm in diameter	1		Protection from dripping water
Protection from object not greater than 12mm in diameter	2		Protection from vertically dripping water (tilted up to 15°)
Protection from object not greater than 2,5mm in diameter	3		Protection from sprayed water (tilted up to 60°)
Protection from object not greater than 1mm in diameter	4		Protection from splashed water
Complete protection against contact, Protection against dust deposit	5		Protection from water projected from a nozzle
Complete protection against contact, protection from infiltration of dust	6		Protection against heavy seas, or powerful jets of water



Protection against immersion



Protection against complete, continuous submersion in water

Fall to 1.22 m

The specially designed, reinforced structure of the Emdoor I87J logistics tablet ensures resistance to accidental drops from a height of up to 1.22 meters in operating mode – even onto hard surfaces. The device meets the stringent requirements of the MIL-STD-810G standard, confirming its durability in industrial and field environments.

Extreme temperatures

Designed for field work, the Emdoor I87J tablet is designed for continuous operation in both very low and high temperatures ranging from -20°C to 60°C. When stored turned off, the device can handle temperatures ranging from -30°C to 70°C. Additionally, this industrial production tablet is ideal for use in rooms with high humidity, ensuring proper operation even at 95% relative humidity.

Working Temp.

-20°C to 60°C

Storage Temp.

-30°C to 70°C

Humidity

0% to 95%

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WIRELESS COMMUNICATION

GPS Navigation

The waterproof Emdoor I87J tablet is equipped with a precise GPS module that combines low power consumption with high location accuracy. Navigation is fast and stable, enabling effective field positioning and safe navigation even in challenging industrial and outdoor environments.

Bluetooth 5.0

The modern Bluetooth 5.0 module enables energy-efficient, short-range communication with other devices such as printers, keyboards, RFID readers, scanners, or headphones. This technology offers higher connection stability and speed than previous versions, while reducing power consumption.

Wi-Fi network

The professional Emdoor I87J tablet supports dual-band Wi-Fi 802.11 a/b/g/n/ac, operating in the 2.4GHz and 5.8GHz bands. This enables fast access to local

networks and the internet both in the office and in the field, ensuring high stability and data throughput.

Standards	802.11(a/b/g/n/ac)
Frequencies	2.4GHz/5.8GHz

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APPLICATION

Trade and Service

Thanks to its multifunctionality and ease of use, the Emdoor I87J work tablet is an ideal tool for sales and field representatives. Modern mobile applications enable quick data collection, customer verification, offer presentation, and sales document generation. The warehouse tablet allows for invoicing, order creation, and real-time data synchronization with the ERP system – regardless of location, thanks to access to a GSM or Wi-Fi network.



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Industry and Construction

Designed for harsh working conditions, construction tablets like the Emdoor I87J are exceptionally resistant to unfavorable working conditions. The dust- and waterproof housing, certified by IP65, and compliance with the MIL-STD-810G standard, allow for safe use of this robust tablet in areas with elevated humidity and dust levels, as well as on construction sites and industrial halls. With

appropriate mobile applications, the waterproof tablet can function as a tool for supervising work, collecting data from the construction site, and managing technical infrastructure and human resources.



Service and diagnostics

The powerful Emdoor I87J diagnostic tablet is ideal for automotive service centers and workshops. Its rugged design, resistance to workshop conditions,

and support for 4G LTE, Wi-Fi, and GPS connectivity make this device ideal for use in harsh environments. The rugged tablet supports technicians in quick vehicle diagnostics, analyzing data from on-board systems, and working with service documentation. Software can be installed that allows for error reading, vehicle system configuration, and access to diagrams and repair history, among other features, increasing efficiency and precision.



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ACCESSORIES AND AVAILABLE VERSIONS

We offer a range of additional accessories for this innovative tablet to further enhance its functionality and comfort. Below is a list of available accessories. Click the accessory name or the "Check" link to be redirected to a page with a description and price of the accessory.

Wrist strap



The wrist strap for Emdoor I87J multifunction tablets increases safety and comfort of use when working mobile.

[Check](#)

Standard adaptor



A compatible wall charger enables quick and safe charging.

Check

Docking Station



The Emdoor I87J industrial tablet docking station allows you to quickly and safely charge and synchronize your device.

Check

Car Holder



The EMDOOR EM-VHM87J car holder allows you to safely mount the waterproof Emdoor I87J tablet in your vehicle and integrate it with external devices thanks to its functional ports.

Check

Additional battery



Additional battery 5000mAh.

Check

4-Battery Charging Station



A professional, 4-slot charging station dedicated to the Emdoor I87J tablet, model MDC87J. This indispensable solution for companies operating multi-shift systems allows for simultaneous charging of up to four batteries outside the device.

[Check](#)

Tempered glass for the screen



Desinged for EMDOOR I87J tempered glass for the screen.

[Check](#)

The professional Emdoor I87J rugged tablet is available in several versions tailored to different needs. By clicking on the hardware configuration number, you will be redirected to the product with the parameters provided in the table below. Furthermore, upon request, it is possible to create a configuration not

currently available in the offer.

	v.1	v.2	v.3	v.0.0	v.0.0	v.0.0	v.0.0
Widnows 11 IOT	—			—	—	—	—
Widnows 11 Home	—	—	—	—	—	—	—
Widnows 11 PRO	—	—	—	—	—	—	—
NFC	—	—		—	—	—	—
2D	—	—	—	—	—	—	—
1920x1200	—	—	—	—	—	—	—
	v.0.0						
Widnows 11 IOT	—	—	—	—	—	—	—
Widnows 11 Home	—	—	—	—	—	—	—
Widnows 11 PRO	—	—	—	—	—	—	—
NFC	—	—	—	—	—	—	—
2D	—	—	—	—	—	—	—
1920x1200	—	—	—	—	—	—	—



More photos in full resolution available in the "Gallery".