EMDOOR V80T v.1 - Rugged tablet with M12 screw-in connectors - Octa Core, Android 12, 4GB/64GB, IP65, MIL-STD-810G, 8-inch screen 1000 nits - for automation, vehicles, industry

Category:	UMPC - Ruggedized
Manufacturer:	EMDOOR
Operating System:	Android 12
Display:	8"
Brightness:	700 nits
Processor:	MediaTek Helio G99 (MT6789), Octa-core 2.2GHz
Memory:	4GB
Hard Drive:	64GB UFS
Flash Memory:	---
Touch screen:	Capacitive	5 - point touch
Durability:	IP65
Drop:	1,22 m
Shock:	MIL-STD-810H
Vibration:	MIL-STD-810H
Temperature:	Temp. Operating -20 TO 60Temp. Storage -30 TO 70
Humidity:	0%-95%
1D barcode scanner (reader):	---

2D barcode scanner (reader):	---
RFID scanner (reader):	NFC 13,56MHz (optional)
Other:	-----
Battery:	---
Working time on battery:	---
Fast battery replacement ability:	No
HotSwap battery:	No
LAN:	No
WLAN:	802.11 a/b/g/n/ac (2.4G/5.0G)
Bluetooth:	Bluetooth 5.2
WAN:	4G LTE
GPS:	GPS | GLONASS | Beidou
Camera:	---
In/Out:	USB 3.0 Type-A x 1, SIM Card x 1, Power DC Jack
Optional accessories:	car holder, mains charger, car charger, wide voltage module, additional battery, cable with RJ45 tip, cable with RS232x2 tip, cable with RS232 + RS485 tip, cable with USBx2 + CAN tip, cable with USBx3 tip, car antenna
Docking station connector:	No
VESA standard – holders and mounts support:	No
COM port:	No
Magnetic card reader (MSR):	No
Microchip card reader:	No
Contrast:	-----
Graphics card:	ARM Mali-G57 MC2
Chipset:	MediaTek MT6789
BIOS:	-----
Casing material:	ABS/PC
Flash Card Reader:	---

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:	218.1 x 154.5 x 23mm
Fanless casing:	Yes
Weight:	611g

2 071,01 zł
net price: 1 683,75 zł

EMDOOR V80T

SPECIFICATION

RESISTANCE

DATA COLLECTING

WIRELESS COMMUNICATION

APPLICATION

The Emdoor V80T is a modern industrial tablet designed for use in exceptionally harsh environments where standard equipment might fail. This model's design is based on a robust, reinforced housing compliant with the IP65 and MIL-STD-810-H standards, guaranteeing complete dust tightness and resistance to spills and mechanical damage resulting from drops. These parameters make the tablet an exceptionally durable work tool, ensuring stable operation in unfavorable field conditions and a safe choice for professionals requiring a combination of high computing power and the highest degree of physical protection.

SPECIFICATION

Emdoor V80T	
Processor	MediaTek Helio G99 (MT6789), Octa-core 2.2GHz
Operating system	Android 12
RAM	4GB
ROM	64GB
Communication	Bluetooth 5.2 | Wi-Fi | GPS | 4G LTE NFC* (optional)

Emdoor V80T

Display	8" 1280×800, 1000 nits brightness, 16:10
Touch screen	Capacitive (5-point)
Protection	IP65	MIL-STD-810H
SIM card	1 x micro SIM
Graphics card	ARM Mali-G57 MC2
Permanent connections	USB 3.0 Type-A	Power DC Jack

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

The heart of the Emdoor V80T tablet is the advanced and energy-efficient MediaTek Helio G99 processor with a clock speed of 2.2GHz, which ensures smooth and trouble-free operation even under heavy system load. The modern architecture used in this model has been precisely adapted to the specific requirements of working with technical software and specialized field tools, enabling lightning-fast information processing regardless of external conditions.
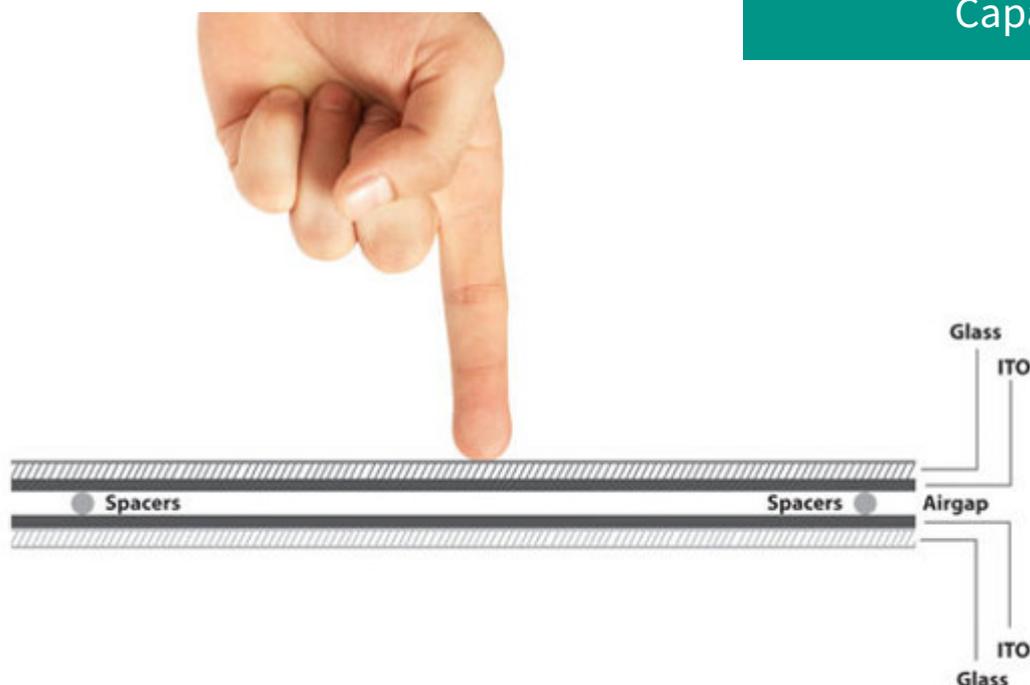
Ergonomic design

The Emdoor V80T is a high-end device designed with extreme durability and comfort of use in challenging operational environments in mind. Its design skillfully combines a slim silhouette with exceptional mechanical resistance, giving the device a modern look while maintaining complete immunity to external factors. This makes this tablet an excellent choice for complex industrial tasks and long-term field operations.
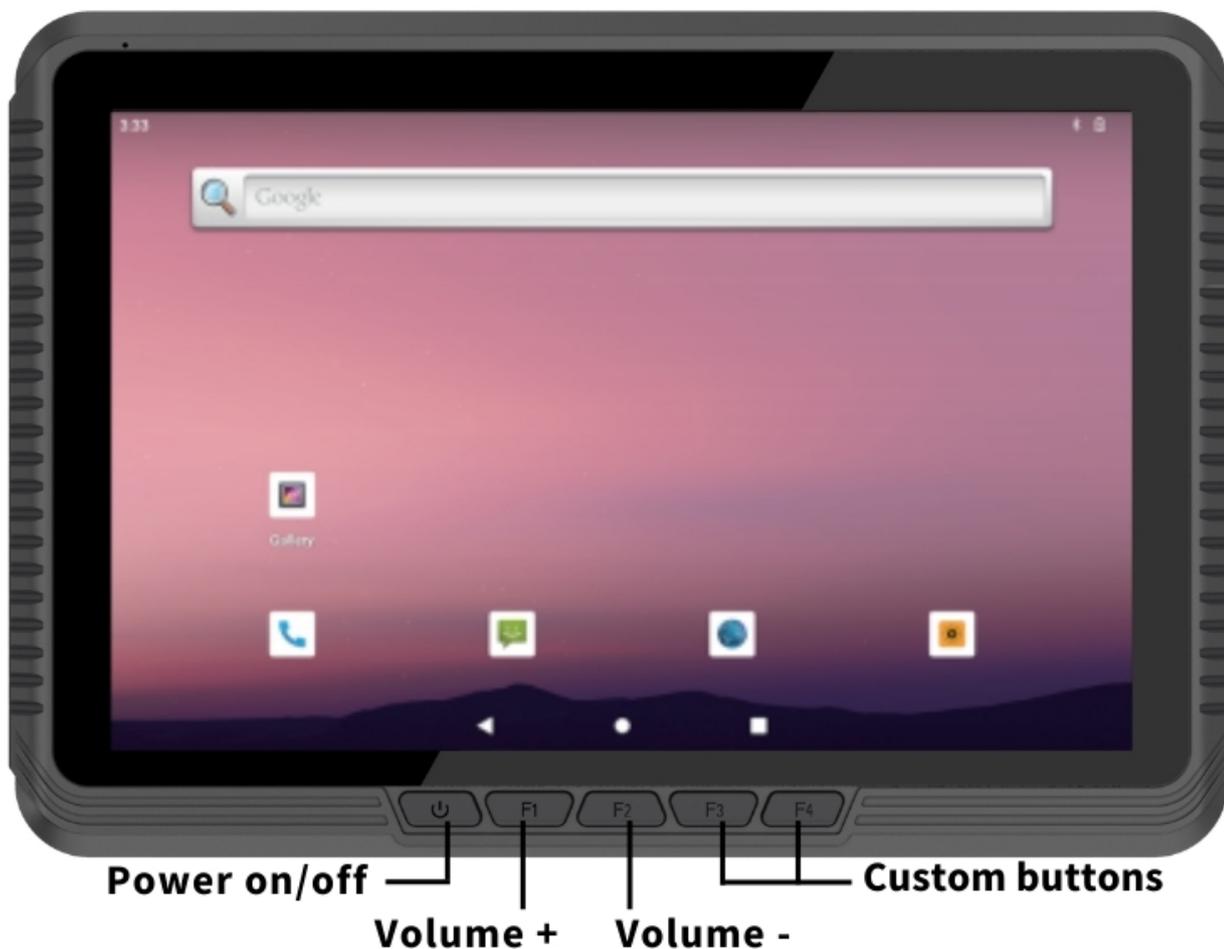
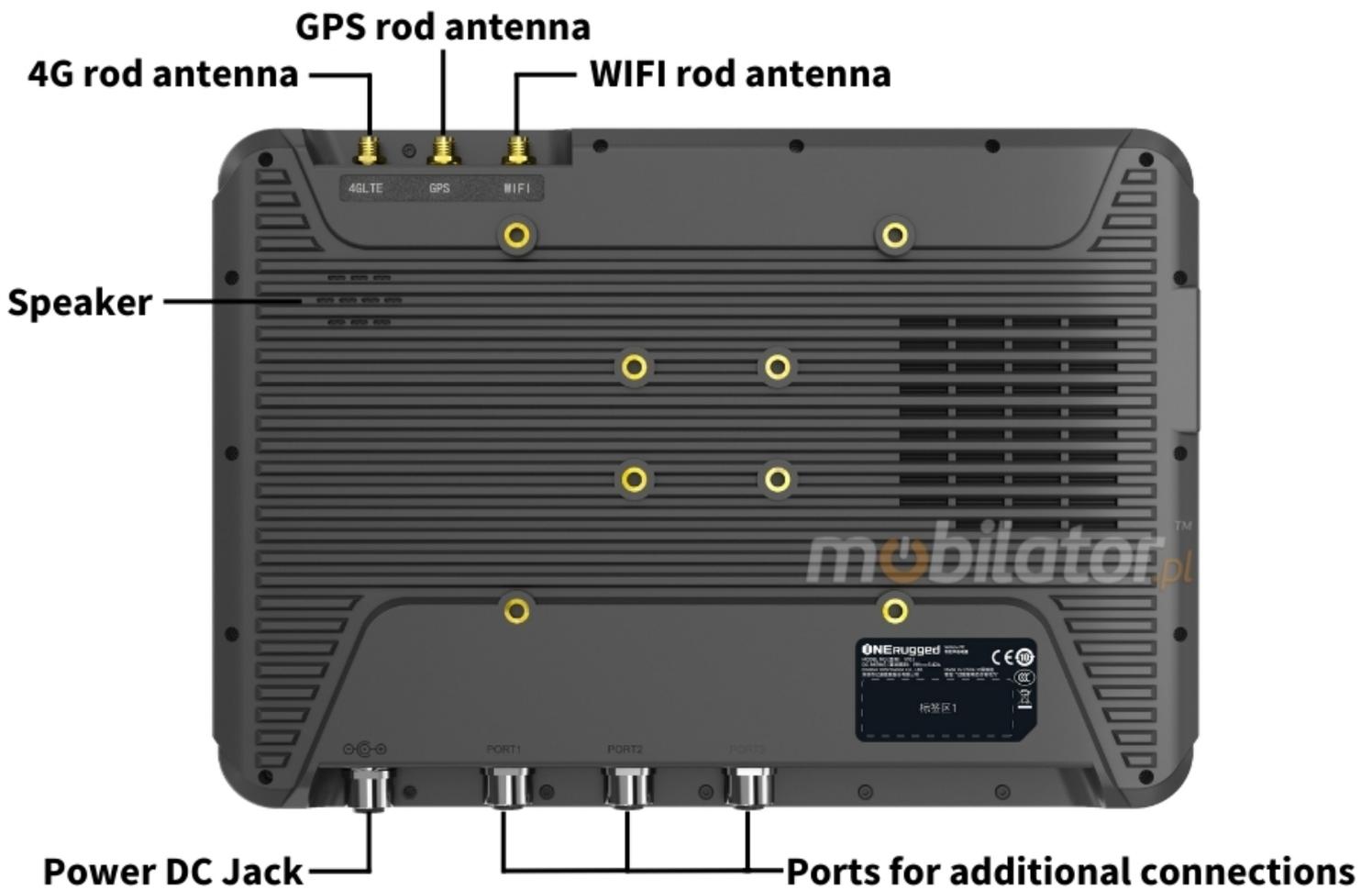| Dimensions	218.1mm x 154.5mm x 23mm
Net weight	611g

Capacitive screen

The capacitive screen used in this model relies on precise detection of interference in an electrostatic field, eliminating the need to apply significant pressure to the screen during navigation. This technological solution allows the tablet to provide exceptionally smooth and precise response to every fingertip contact, guaranteeing immediate system response. The device is also equipped with an advanced multitouch function that efficiently identifies multiple touch points simultaneously. This, combined with the display's increased sensitivity, allows for easy application management even in situations requiring the use of protective gloves.

Connectors and buttons

Power on/off — (U)

Volume + — F1

Volume - — F2

Custom buttons — F3, F4

The durable Emdoor V80T tablet features a set of physical control keys that allow for instant access to key system functions, even in challenging work environments. In addition to the standard power and volume buttons, this model's design includes two dedicated function buttons that users can program to suit their specific tasks and personal needs.

The sealed Emdoor V80T allows for the installation of GPS, Wi-Fi, and 4G antennas, ensuring uninterrupted connectivity and data exchange during fieldwork. The device's design includes a built-in DC jack power socket and dedicated expansion ports, which allow for the connection of optional interfaces such as RS232, USB, RS485, or RJ45 using specialized accessories. This wide range of available connectors allows for extensive customization and adaptation to specific technical needs and the unique requirements of a given industry.

DATA COLLECTING

NFC* (optional)

NFC 13.56MHz

The NFC communication module integrated into the modern Emdoor V80T model operates at a frequency of 13.56 MHz and is fully compliant with ISO/IEC 14443A/B and 15693 standards, making it a key component of proximity data transmission systems. This technology enables instant connection to tags and cards within a range of up to 4 cm, which is widely used in electronic access control, personnel authorization, and logistics processes related to goods registration.

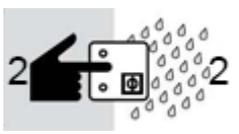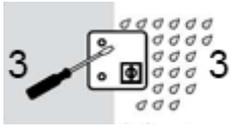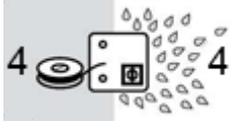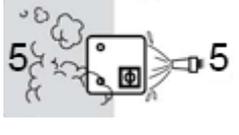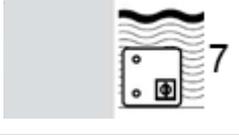| RESISTANCE |
|---|
| IP65 |

This waterproof Emdoor V80T was created with the needs of the most demanding customers in mind and stringent durability guidelines, as confirmed by the IP65 certification. The technical solutions used guarantee complete isolation of components against dust ingress and resistance to intense water jets impacting the structure from any direction. This high level of protection makes this tablet ideal for uniformed services and workers operating in highly dusty warehouses or during complex outdoor work carried out in extremely unfavorable weather.

Firts digit	Protection level	Second digit
No special protection	0 ⊕ 0	No special protection

Firts digit	Protection level	Second digit
Protection from solid objects greater than 50mm in diameter	1 (hand) ... 1 (dripping water)	Protection from dripping water
Protection from object not greater than 12mm in diameter	2 (finger) ... 2 (dripping water)	Protection from vertically dripping water (tilted up to 15°)
Protection from object not greater than 2,5mm in diameter	3 (tool) ... 3 (sprayed water)	Protection from sprayed water (tilted up to 60°)
Protection from object not greater than 1mm in diameter	4 ... 4 (splashed water)	Protection from splashed water
Complete protection against contact, Protection against dust deposit	5 ... 5 (water jet)	Protection from water projected from a nozzle
Complete protectionm against contact, protection from infiltration of dust	6 ... 6 (heavy seas)	Protection against heavy seas, or powerful jets of water
	7 (immersion)	Protection against immersion
	8 (submersion)	Protection against complete, continuous submersion in water

Fall to 1.22 m

The innovative Emdoor V80T boasts an exceptionally robust design, verified for durability during rigorous durability tests, including drops from heights of over one meter. The use of a specially reinforced external structure ensures effective protection of all key electronic components, even during a violent impact with a

hard surface. This well-thought-out design allows users to operate the device with complete confidence in a dynamic work environment, eliminating concerns about damage or device failure if it accidentally slips out of their hands while performing professional duties.

Reliable in all conditions, the Emdoor V80T guarantees users exceptional operational stability in the most demanding locations thanks to its ability to function efficiently in a wide temperature range from -20°C to 60°C. The device is even more durable when idle, allowing for safe storage in temperatures up to 70°C. The entire design has been additionally adapted for operation in environments with air humidity up to 95%, enabling the systems to maintain full operational efficiency in locations with high water vapor saturation and challenging microclimates.

Working Temp.	-20°C to 60°C
Storage Temp.	-30°C to 70°C
Humidity	0% to 95%

WIRELESS COMMUNICATION

GPS Navigation

The drop-resistant Emdoor V80T features a built-in, extremely precise location module, optimized for minimal power consumption while maintaining excellent positioning parameters. The navigation system utilized in this device is characterized by very fast response times and signal stability, allowing for accurate geographic coordinate determination in challenging terrain and efficient arrival at the designated point even in the most challenging outdoor conditions.

Bluetooth 5.2

The efficient Emdoor V80T is equipped with an advanced Bluetooth 5.2 module. This technology allows for establishing and maintaining a very stable connection with a wide range of technical peripherals, including barcode readers and payment terminals, significantly increasing the efficiency and smoothness of logistics and service operations. Thanks to such a reliable short-range communication system, daily work becomes more efficient, and the risk of losing connection with key accessories is minimized.

Wi-Fi network

The versatile Emdoor V80T provides its users with instant access to network resources thanks to its dual-band wireless module that supports modern data

transmission standards. The device's dual-frequency operation, 2.4GHz and 5.0GHz, translates into very high throughput and guarantees consistent signal stability, which is crucial for fast, large-volume file transfers. This network configuration allows for seamless use of advanced cloud systems and maintains the continuity of digital processes even during intensive use in a professional work environment.

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

APPLICATION

Trade and Service

The mobile Emdoor V80T is a versatile tool supporting the work of field workers and sales representatives by combining rich functionality with an intuitive and easy-to-use interface. Thanks to its advanced software, the tablet allows for rapid information gathering and customer database verification, ensuring professional offer presentation and efficient preparation of sales documentation. This device is also ideal for logistics and warehousing processes, enabling invoicing and order creation with automatic inventory updates in main systems.

All these operations can be performed from anywhere thanks to the use of reliable cellular communication modules and stable connections to wireless networks, making mobile work fully effective.

Industry and Construction

The robust Emdoor V80T is designed for intensive use in extremely demanding environments, where the highest resistance to adverse external factors is crucial. Thanks to its housing, which complies with the stringent IP65 tightness standard, the device remains completely resistant to dust and moisture ingress, ensuring stable and trouble-free operation on construction sites, industrial halls, and

other locations with harsh environmental conditions. The exceptional durability of this device is further confirmed by the MIL-STD-810-H certification, which guarantees that the tablet meets stringent military standards for resistance to shock, vibration, and other mechanical loads encountered in the harshest operating conditions.

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Service and diagnostics

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The Emdoor V80T diagnostic tablet serves as an essential tool in professional service centers and mechanical workshops, where its robust construction and resistance to specific contaminants translate into long-term durability. The entire design has been precisely adapted to challenging technical conditions,

and built-in wireless communication and location systems allow for the free use of network resources during ongoing vehicle inspections. Using this device significantly streamlines the diagnostic process and verification of electronic systems, enabling the use of advanced error analysis applications and instant access to technical specifications and repair history, directly improving the precision and standard of service provided.

ACCESSORIES AND AVAILABLE VERSIONS

The practical Emdoor V80T provides access to a wide range of optional accessories that significantly enhance the convenience of daily use and facilitate

the execution of tasks in specific professional settings. All dedicated extensions are cataloged in a clear overview, where individual product names and active links lead directly to detailed technical descriptions and current purchase prices for each piece of equipment. This solution allows users to easily review the parameters of the accessories and precisely match the hardware configuration to their operational needs and budget.

Car charger

The Emdoor V80T professional car adapter for the tablet supports a wide input voltage range from 8.4V to 30V.

Check

Additional power adapter

A compatible additional power adapter enables fast and safe charging.

Check

Wide voltage module

The industrial stabilizing module effectively eliminates the risk of tablet damage caused by voltage spikes and ensures its uninterrupted operation, even during engine start-up in heavy machinery or vehicles.

Check

Vesa mounting bracket

A dedicated VESA mounting bracket for the Emdoor V80 that allows for secure and stable installation of the device on monitor arms, stands, or professional car mounts.

Check

Additional battery

Additional battery 2000mAh.

Check

Puck-type GPS antenna

This external puck-type GPS antenna with a long cable is designed for the Emdoor V80T tablet to achieve maximum positioning precision.

Check

WiFi antenna

A dedicated dual-band WiFi antenna, supporting 2.4 GHz and 5 GHz frequencies, ensures fast and stable wireless connectivity.

Check

GPS antenna

A professional external antenna, providing fast and precise satellite positioning in the most challenging terrain.

Check

Functional adapter cable (3x USB 2.0)

A specialized expansion adapter for the Emdoor V80T tablet, offering three additional USB 2.0 ports for connecting external accessories simultaneously.

Check

Functional adapter cable (2x RS232)

A dedicated expansion cable for the Emdoor IoT tablet, equipped with two independent RS232.

Check

Functional adapter cable (2x USB 2.0 + CAN)

This industrial expansion cable for the Emdoor V80T features two USB ports and a CAN (Controller Area Network) bus connector.

Check

Functional adapter cable (RS232 + RS485)

A specialized communication cable for the Emdoor V80T tablet, equipped with industrial RS232 and RS485 serial ports.

Check

8-pin power supply cable

A specialized 8-pin power and signal cable for the Emdoor VS07 tablet, terminated with flying leads for DIY installation.

Check

12-pin power supply cable

12-pin power and signal cable for the Emdoor V80T tablet, terminated with flying leads for DIY installation.

Check

Functional adapter cable (RJ-45 LAN)

A dedicated functional adapter for the Emdoor V80T tablet, enabling a stable connection to a wired network via the RJ45 port.

Check

4G antenna

A dedicated external 4G antenna for the Emdoor V80T 4G tablet, designed to significantly boost cellular signal strength and stabilize internet connections outdoors.

Check

The versatile Emdoor V80T is available in a variety of versions, allowing for the flexible adaptation of this rugged device to specific professional requirements and job specifications. The use of interactive configuration numbers in the product description allows for immediate access to detailed technical parameters in a clear table. Furthermore, if specific needs arise, a dedicated hardware variant, not currently included in the standard catalog of available solutions, can be custom-tailored.

	v.1	v.2
NFC	—	+

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