WiFi | Bluetooth | NFC | QR | 4G LTE

Emdoor I20A v.9 - Rugged tablet with a 12-inch screen, NFC module, WiFi, Bluetooth 5.1, GPS, 16GB RAM, 128GB ROM and a modern 2D Honeywell scanner

Category:	UMPC - Ruggedized
Manufacturer:	EMDOOR
Operating System:	Windows 11 Home (optional) | Windows 11 PRO (optional) | Windows 10 IoT (optional)
Display:	12.2" 1920x1200, IPS, 16:10, 650 nits
Brightness:	~650 nits
Processor:	Intel Core i7-1255U (10x 1.7GHz, maks. 4,70GHz)
Memory:	**16GB RAM**
Hard Drive:	**128GB**
Flash Memory:	-----
Touch screen:	Capacitive | 10 point touch
Durability:	IP65
Drop:	1.22m
Shock:	MIL-STD-810G
Vibration:	MIL-STD-810G
Temperature:	Operating temperature: -20°C -- 60°CStorage temperature: -30°C -- 70°C
Humidity:	0% -- 95%
1D barcode scanner (reader):	**Honeywell N3680**

2D barcode scanner (reader):	**Honeywell N3680**
RFID scanner (reader):	**NFC 13,56MHz**
Other:	-----
Battery:	7.4V 700+6300mAh li-pol
Working time on battery:	4:30 hours + 30min.
Fast battery replacement ability:	Yes
HotSwap battery:	Yes
LAN:	Optional
WLAN:	WiFi 6 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax (2.4G/5.8G)
Bluetooth:	Bluetooth 5.1
WAN:	LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8
GPS:	Yes
Camera:	Rear: 8Mpx Front: 2Mpx
In/Out:	HDMI 1.4a | Audio Jack | USB type C | RJ-45 LAN (optional) | USB 2.0 (optional) | RS232 (optional)
Optional accessories:	-----
Docking station connector:	Yes
VESA standard – holders and mounts support:	No
COM port:	Optional
Magnetic card reader (MSR):	No
Microchip card reader:	No
Contrast:	-----
Graphics card:	-----
Chipset:	-----
BIOS:	-----
Casing material:	ABS/PC
Flash Card Reader:	TF card (max. 128GB)
CD/DVD:	-----

Audio:	Built-in microphone and speaker
Keyboard:	Onscreen
Additional Navigation Devices :	-----
Color:	Black
Swivel Hinge:	-----
VGA out:	No
TV Out:	-----
TV Tuner:	No
Security:	-----
Waterproof:	IPX5
Sand and dust:	IP6X
Size:	339 x 230 x 26mm
Fanless casing:	Yes
Weight:	1500g

1 760,05 €
net price: 1 430,93 €

Emdoor I20A

Industrial tablet with reinforced construction, designed to work under the harshest conditions.

SPECIFICATION

RESISTANCE

DATA COLLECTING

WIRELESS COMMUNICATION

APPLICATION

ACCESSORIES AND AVAILABLE VERSIONS

Emdoor I20A is a modern, waterproof industrial tablet designed for extreme applications. It has a specially designed, reinforced construction that meets the requirements of IP65, which confirms the protection of the device against

dust and water.

Emdoor I20A	
Processor	Intel Core i7-1255U (10x 1.7 GHz, max. 4,70 GHz)
Operating system	Windows 11 Home * (optional) Windows 11 PRO * (optional) Windows 11 IOT Enterprise * (optional)
RAM	16GB
SSD	128GB 256GB * (optional) 512GB * (optional)
Display	12.2" 1920x1200, IPS, 16:10, 650 nits
Touch screen	Capacitive (10-point)
Battery	7.4V/700+6300mAh
Camera	2Mpx Front	8Mpx Rear
Protection	IP65	1.22m drops	MIL-STD 810G
Communication	4G LTE	Bluetooth 5.1	Wi-Fi	GPS	NFC
Connectors	HDMI 1.4a	Audio Jack	USB type C	2D scanner Optionally, choose 1 out of 4: RJ45 or USB 2.0 or RS232 or 2D scanner
Memory card	TF slot (max. 128GB)
SIM card	SIM
Sensor	Gravity sensor

Emdoor I20A

AR Film	NO *** (optional)**
Scanner 2D	Honeywell N3680

* Optional equipment, available on specific versions only.

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

Dustproof industrial tablet Emdoor I20A was equipped with high performance, energy-efficient Intel Core i7-1255U (10x 1.7GHz, max. 4,70GHz) processor. Inside, there are ten cores that allow for more efficient processing of multiple tasks simultaneously. Shared caching, which uses a multi-level hierarchy, is dynamically allocated to each processor core according to the load. This reduces the average access time to main memory. Enhanced graphics card technology lets you enjoy Full HD video and movies. Low power consumption guarantees long battery life.

Ergonomic design

Emdoor I20A industrial tablet is designed for resistance and convenience. The sleek and rugged 26mm thick design and stylish case will make the tablet very well suited for industrial use and more. The unique size has been carefully thought out to make the device more comfortable and ergonomic. The non-slip casing makes it safe and secure to hold it in your hand, and the rubber corners further protect your device against possible damage as a result of falls.
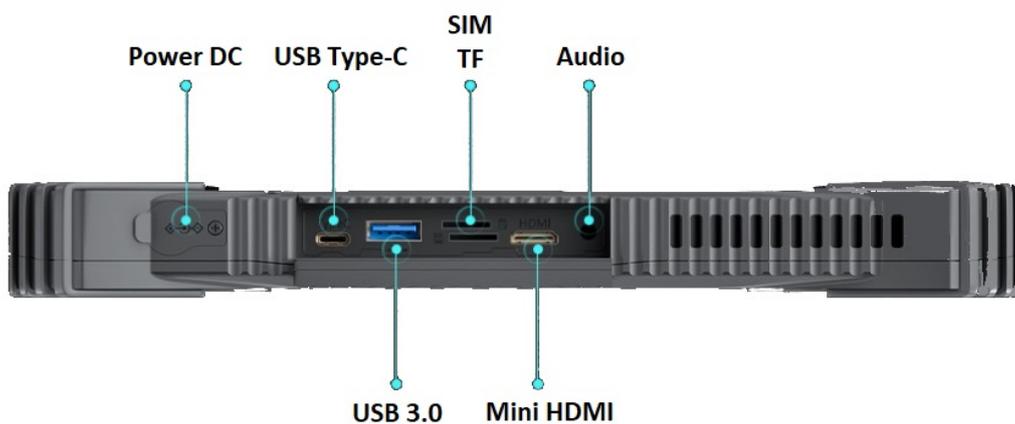
Dimensions	339mm x 230mm x 26mm
Net weight	1500g

Capacitive screen

With the capacitive screen, the reaction of the device is not to directly press the screen, but to change the electrostatic field at the point where the device is touched. This allows for much more precise handling and gentle brushes on the screen. In addition, we can use multitouch technology, the ability to control our tablet with a few fingers at once.

Connectors

* Illustrative photo. Connectors may vary depending on specifications.

Barcode scanner

2D Barcode Scanner
Honeywell
N3680

The barcode reader allows you to read, decode and send data stored in the barcode to a computer. With dynamic scanning capabilities and a large reading range, the tablet collects data accurately, helping to increase the pace and efficiency of your work. The whole thing can be started quickly, because thanks to the simplified installation procedure and the intuitive, comfortable design, preparing the scanner for operation is very easy. When choosing a 2D scanner, we cannot connect to RJ45, USB 2.0 or RS232 ports.

2D Scanner	Honeywell N3680

IP65 Protection

The IP standard defines the degree of protection provided by the enclosure of an electrical device against such factors as: access to dangerous parts inside the enclosure, penetration of foreign matter, splashing or immersion.

IP6X	No ingress of dust, complete protection against contact. A vacuum must be applied. Test duration of up to 8 h
IPX5	Protection against water jets (12.5 l / min) poured on the housing from any side

MIL-STD 810 Standard

The MIL-STD-810 is a strict military standard used in the United States Army. It determines the immunity of the equipment to severe environmental and weather conditions such as extreme low and high temperatures, temperature

changes, rain or dust, as well as various accidents (shocks, floods, high altitude falls, etc.). Although the MIL-STD-810 is mainly used for military equipment, it is often used by private companies that produce equipment that requires unmatched durability.

1.22m drop resistance

Specially designed construction gives the machine a chance of accidental falls from up to 1.22 meters in operating mode, even on hard surfaces.

Extreme temperatures

Emdoor I20A is suitable for continuous operation in both low and high temperatures in the range of -20 ° C to 60 ° C. When the device is off, it can handle temperatures ranging from -30 ° C to 70 ° C. In addition, the rugged industrial tablet performs well in rooms with increased humidity, ensuring proper operation even with 95% relative humidity.

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

WIRELESS COMMUNICATION

GPS Navigation

Waterproof tablet Emdoor I20A is equipped with a professional GPS U-Blox M8Q module with GLONASS and Beidou support, combining low power consumption with high accuracy. Navigation is fast and smooth, allowing you to easily and easily reach any destination.

Bluetooth 5.1

Bluetooth enables wireless short-range communication between various electronic devices, such as the keyboard, computer, laptop, palmtop, mobile phone and many others. In the fourth version of this standard, energy consumption was reduced considerably, at the expense of lower transfer costs, and real operating coverage increased. Transmission distance: 10m.

Wi-Fi network

Dual-band Wi-Fi provides fast network access wherever you can connect to secured or open Wi-Fi networks. This is a convenient solution for people who have a work or residence router and a wireless network that can be used at no extra cost. The shock-resistant industrial tablet is equipped with the latest 802.11ac technology, which allows file transfer speeds up to 1300 Mb/s.

Standards	802.11 (a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax)
Frequencies	2.4G/5.8G (Dual-Band)

Near Field Communication - a short-range, high-frequency, radio communication standard that allows for wireless data exchange at a distance of up to several centimeters. The technology is a simple extension of ISO / IEC 14443 that combines the smart card interface and reader in one device. NFC devices can communicate with both existing devices in the ISO / IEC 14443 standard, as well as with other NFC devices, and thus are compatible with the existing and already in use public transport and payment infrastructure. NFC present in the device supports ISO / IEC 14443A / B and ISO15693 protocols. Working distance is 2-4 cm.

APPLICATION

Trade and Services

Multifunctionality and simple operation, tablets are a useful tool for sales representatives. Modern applications working under the tablet system allow, for example, to enter a database of contractors into the tablet's memory, which later allows us to quickly search for it by name or NIP number. We can do the same in the case of our commodity base, which can work in parallel with the base of contractors. Additional use of tablets in trade is, for example,

sending orders or invoices directly to the company via GSM or Wi-Fi.

Industry and Construction

Industrial tablets are characterized by high resistance to adverse working conditions. Tightness, dust and water resistance of enclosures, certified by IP (dust and water resistance standards) and often MIL-STD military standard, can withstand even the harshest conditions in industrial infrastructure or on the construction site. With appropriate applications, tablets can be used for control and control of various industrial processes, as well as for data collection and analysis.

Warehouse

An industrial data sheet is the ideal solution for quick stocktaking. In addition, depending on the software used, it streamlines the process of entering and delivering goods into the warehouse, enables price control and dispensing, helps to collect and order orders, and identifies customers and servicing the rental. The advantages of using tablets are undoubtedly: time savings, customer satisfaction thanks to the correct price and speed of operation.

ACCESSORIES AND AVAILABLE VERSIONS

The industry-leading Emdoor I20A tablet is available in several versions to suit different needs. By clicking on the hardware configuration number you will be redirected to the product with the parameters given in the table below. In addition, on request, you can create a configuration not currently available in the offer.

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

	v.1	v.2	v.3	v.4	v.5	v.6	v.7	v.8	v.9	v.10
8 GB RAM					–	–	–	–	–	–
16 GB RAM	–	–	–	–						
NFC	–					–				

USB 2.0	—		—	—	—	—		—	—	—
RS232	—	—		—	—	—	—		—	—
Scanner 2D Honeywell	—	—	—			—	—	—		
Windows 11 Pro	—	—	—	—		—	—	—		
Intel Core i5						—	—	—	—	—
Intel Core i7	—	—	—	—	—					