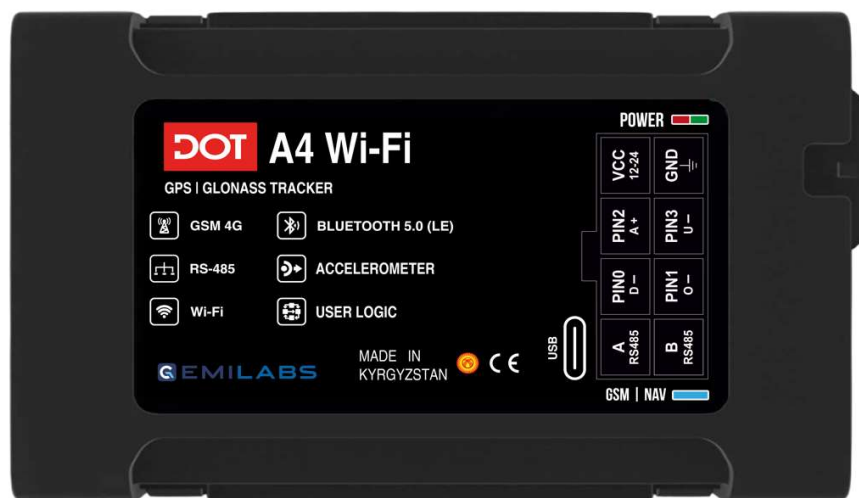




NAVIGATION CONTROLLER

DOT A4 WIFI

Technical certificate



General information:

DOT A4 WIFI (further on - "tracker") is the most compact navigational controlling operating in 2G|4G networks and Wi-Fi to monitor both movable and immovable objects. The device can transfer data up to 4 servers and provides alternative positioning that is resistant to satellite signal jamming.

To widen the tracker's ability to control a vehicle or installed on-board hardware, tracker **can connect to a variety of sensors and control systems**, including **discreet, analog, frequency-pulse, digital (RS485) and BlueTooth sensors**.

Backup battery allows the device to work uninterrupted if the external power supply is disconnected. Moreover, tracker notifies user if such a situation happens.

Built-in motion sensor is used to optimize power consumption and as a measure to control driving style.

Additional features such as **universal BLE integration, white/blacklist of GSM operators, wireless identification, geozones and Telegram notifications** allows this device to be truly easy to use and versatile.

Technical data

General technical specification are given in Table №1.

Table №1 - Technical data

Characteristics	Notes	Values
Dimensions, mm.	Excluding antennas and wiring	79 x 50 x 17
Weight, gr.	Excluding antennas, wiring and battery	51
Supply voltage, V	With no regard to impulse emissions	9 - 40
Working temperature, °C	Excluding battery	-40 ... +85
Non-inverting DI, QTY	Log. level «1» for discreet mode - no less than 6 V Ranges from 1 to 40 V	1
Inverting DI, QTY	Log. level «1» for discreet mode - up to 2,1 V.	2
Inverting DO, QTY	Switching current up to 540 mA	2 ²
Motion sensor (accelerometer)v	Built-in	+
SIM slots	nanoSIM	2
SIM chip slots	Optional	2
Backup battery, mA	Protection against overcharging, full discharge, temperature control	100-350
Work time with battery, h	Value for 300 mAh battery	1,5-2
Full battery charge, h	Value for 300 mAh battery	2
Ingress Protection Code		IP54
Non-volatile memory, Mb	Up to 32 000 events	16
USB	TYPE C. for setup and diagnostics	+
RS485	For FLS, readers, etc.	+
Bluetooth 5.0 (LE)	For wireless sensors: FLS, temperature sensors, etc.	+
Wi-Fi	Data transmittance	+
GSM module		
WTT type	2G 4G	
Frequencies	FDD-LTE (Cat.1): B1 B3 B5 B7 B8 B20 GSM GPRS EDGE: 900 1800 МГц.	
Antenna	Built-in	
Navigation module		
Positioning	GPS GLONASS BeiDou Galileo QZSS	
Antenna	Built-in	
Cold start, sec	30	
Hot start, sec	1	
Sensitivity, dBm	-166	
Wi-Fi and Bluetooth modules		
Antenna	Built-in	
Power, dBm	20	
Sensitivity, dBm	-97	
Positioning types		
Satellite	Via GPS GLONASS BeiDou Galileo QZSS	
LBS	Via GSM base stations	
Alternative	Via wireless marks	

WARRANTY OBLIGATIONS

Warranty starts at the date of purchase. To maintain specified characteristics it is recommended to change the battery every 2 years of service.

The manufacturer does not guarantee the software and hardware compatibility of the device with software and hardware not included in the delivery package, except in cases where this is clearly stated in the User Manual.

The warranty does not apply to device upgrades.

Warranty does not apply in the following cases:

- if there is a violation of operating rules;
- if there are traces of mechanical damage (both external and internal);
- if the malfunctions are caused by ingress of external forces, insects or liquids;
- if there are traces of chemical, electrochemical, electrostatic and/or thermal damage;
- if the damage was done by power supply, communication or cable networks, which are not compliant with state standards;
- if the damage was done while installing parts and/or components, that are not approved by the manufacturer;
- if the repairs/maintenance during the warranty time was done by personal not authorized by the manufacturer;
- if the manufacturer's seals are damaged;
- if the deficiency of hardware's operation is caused by external influences on the hardware and the electrical circuit to which the hardware is connected;
- if the malfunction is caused by third-party actions or other unforeseen circumstances not related to the manufacturer's liability

Delivery package

The device is supplied in the configuration shown in Table №2.

Table №2 - Supply package

№	Name	QTY	Notes
1	Navigation controller	1	monitoring device
2	Set of connection wires	1	
3	Backup battery	*	upon request (110 – 350 mAh)
4	Technical certificate	*	upon request

Warranty Ticket			
Name and type	Navigation controller «DOT A4 WIFI»		
Serial Number			
Date of purchase	«__» _____ 20__ date month year		
Seller			
Seller's sign and seal			