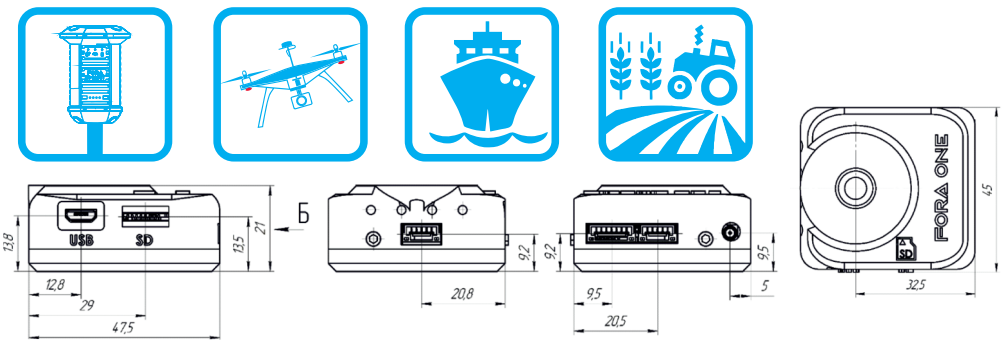
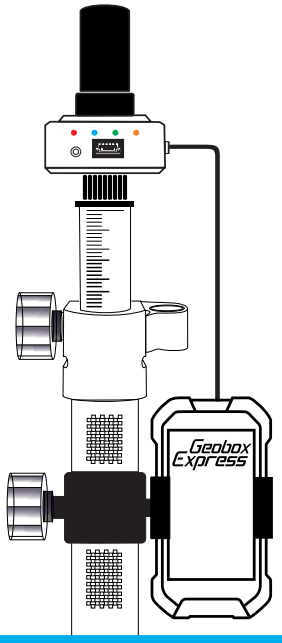
GEOBOX FORA ONE

Satellite geodetic RTK / PPK receiver





Geobox FORA ONE

Multi-band
High-performance
GNSS RTK receiver (RTK/PPK)
184 channels
Bluetooth
Wi-Fi, Web-interface
RS-232, UART
Lora/VHF modem (optional)
Power supply: 3.5-5V MicroUSB, XS5
Weight: 30g. Mount: 1/4"



Receiver power

The receiver features low power consumption. Despite the wide voltage range (3.5-5V), it is recommended to supply the receiver with 4.2V. An ideal option for external field power is the **GEOBOX FORA BAT** module (30 hours of operation in rover mode).

The receiver allows you to mount the antenna directly to the SMA connector on the receiver body, which allows it to be used as a ready-made device. The bottom of the receiver has a 1/4 " mount for mounting the receiver on a photo mount. The Geobox assortment includes an AS1458 adapter for converting to a" classic "5/8"mount.

If the receiver is used in conjunction with a smartphone (Geobox Express software), the receiver can be powered via an OTG cable.

Indication

There are four indicator LEDs on the receiver body:

- Power (red)
- Navigation solution status (blue)
- SD card recording (green). Blinking while writing data to SD card
- Triggers of an external camera (orange). Blinks when the shutter is released.

Connecting the receiver to the UAV or to the camera.

FORA ONE receiver has a built-in interface for working with UAVs manufactured by DJI and Autel (see Figure 1). The XS5 connector is used to connect a hot shoe camera.

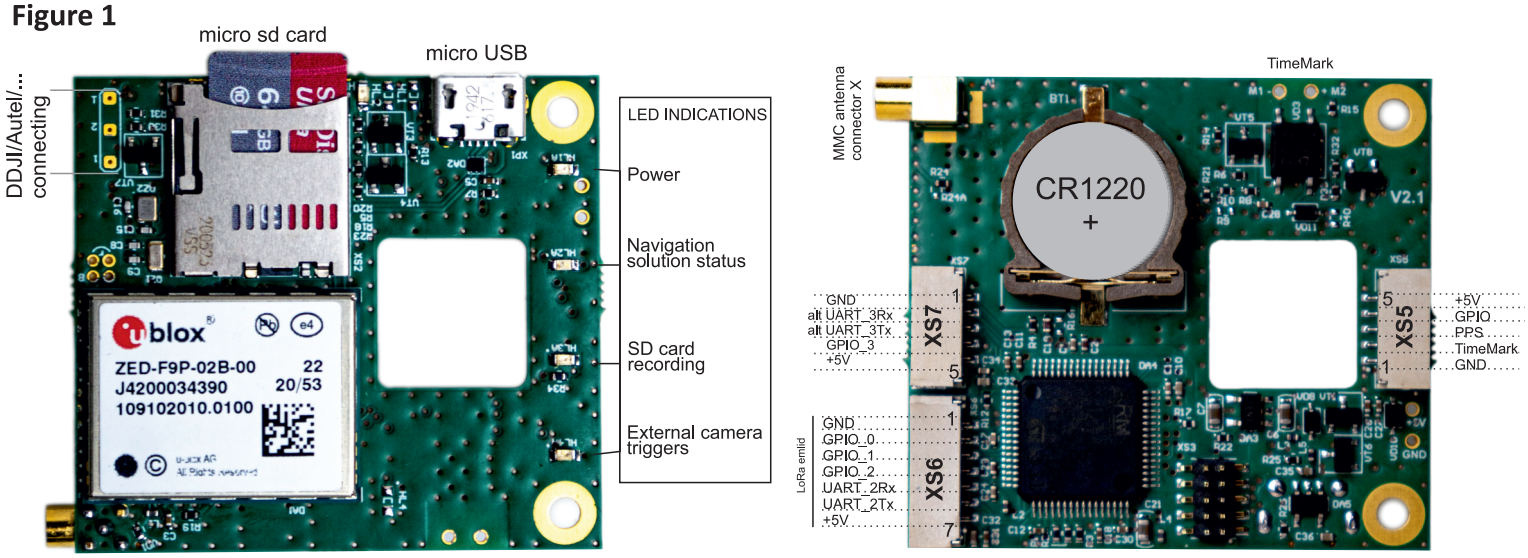
Benefits:

- **Precision and Reliability**
- **Light weight and energy consumption**
- **Simple of integration into the system**
- **SD card 32 GB USB flash**
- **RS232, UART**
- **Wi-Fi, WEB interface**
- **Built-in algorithms for working with DJI and Autel UAVs**

Area of use:

- **RTK receiver (rover from a network of differential stations, receiving corrections by radio modem)**
- **RTK Base (NTRIP, transmission of corrections by radio channel)**
- **GNSS receiver for static measurements**
- **OEM GNSS receiver (RTK / PPK) for installations on UAVs and other equipment**

Figure 1



Specifications

Memory and SD card	Yes, up to 32 GB
Bluetooth type and range	V2.1 + EDR / V4.1 Dual Mode: Class 2, up to 150m
Availability of Wi-Fi and Web interface	Yes / Yes (setup, data exchange, update)
Number of channels	184
Body material	Super strong plastic
Dimensions, mm	56.4 x 45.3 x 14.6 / 43.2 x 41.5 x 9.2 (with / without housing)
Phase center distance	14.6 mm (SMA connector with coiled antenna)
Weight, g	35/30 (with / without housing)
Operating temperature range	From -40 ° C to + 80 ° C
Indicators, LEDs	4 LEDs: On / Off, Navigation Solution, Card Recording, Shutter Release
Accuracy and performance	
Received Signals	GPS L1C/A L2C, GLO L1OF L2OF, GAL E1B/C E5b, BDS B1I B2I, QZSS L1C/A L1S L2C, SBAS L1C/A
Initialization time	Less than 10 seconds
Positioning frequency Static (plan / height)	standard 20 Hz
Static (plan / height)	4mm ± 0.5mm/km /8mm ± 1mm/km
Fast static (plan / height)	5mm ± 0.5mm/km /10mm ± 0.5mm/km
Data	NMEA, LLH / XYZ
Output Formats	NTRIP, VRS, RTCM3
RTK Correction Receive Formats (Plan / Elevation)	7mm ± 1mm/km / 10mm ± 1mm/km
Connection	
XS5	5 pins, power supply, EVENT (HOT SHOE camera)
XS6	Connecting UHF / LORA radio modem
XS7	UART
RS232	Internal connector
USB	Power, SD card access
Tbeacon (NMEA) Beacon Connection	Yes, internal
DJI / Autel UAV Connection	Yes, internal (DJI PH3, PH4, Mavic 2 PRO, Mini1 / 2)
Antenna connector	Yes. SMA on the case, micro MCX on the board. Selected when ordering
UHF modem availability / power	External connection possible
Power	
Voltage, V	3,5-5
Available connectors	Micro USB, XS5, solder pads
Warranty	24 month