

DEKART

GEODETTIC ACCURACY
GNSS RECEIVER



- Web interface
- 2 SIM GSM/UHF*
- Memory 32 GB*
- Hot-swap batteries
- Горячая замена батарей
- Panoramic indication
- IP67

TECHNOLOGIES

WEB-SURVEY

Use the browser for full control, management, and survey by the receiver through the WebUI

STEADY STREAM

Only the most stable stream of correction, using both UHF and GSM connection

RTK&GO

Be confident in your field data by combining RTK and Stop&Go modes

- **DEKART** - standard model based on ComNav navigation module
- **DEKART-SE** - improved model based on the Septentrio navigation module

DEKART – is a universal GNSS geodetic accuracy receiver. It can be used as a Base or Rover in RTK mode.

The receiver is easily controlled by the **Web Survey** interface or any field software which is able to receive **NMEA** messages.

Thanks to **RTK&GO** technology you can combine RTK points in Stop&Go Raw data to make your job anyway.

Steady Stream technology will allow you to receive only the most stable correction stream from Base station automatically switching between all available channels: 2 SIM cards and UHF.

The innovative **panoramic indication** gives a complete picture of the status of the receiver no matter which side you are watching.

Batteries can be switched by the **hot-swappable** way. You can survey as long as need due to high battery capacity.

TECHNICAL SPECIFICATIONS

Signal Tracking

	DEKART	DEKART-S	DEKART-SE
Channels	574	956	448
GPS	L1 C/A, L2C, L2P, L5	L1 C/A, L2C, L2P, L5	L1C/A, L1C, L2C, L2P, L5
BeiDou	B1, B2, B3	B1, B2, B3	B1I, B1C, B2a, B2I, B3
GLONASS	L1 C/A, L1P, L2 C/A, L2P, L3	L1 C/A, L1P, L2 C/A, L2P, L3	L1CA, L2CA, L3 CDMA
Galileo	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b, E5 AltBoc, E6
SBAS	WASS, EGNOS, MSAS, GAGAN	WASS, EGNOS, MSAS, GAGAN	WASS, EGNOS, MSAS, GAGAN, SDCM (L1, L5)**

Positioning

	DEKART/DEKART-S	DEKART-SE
RTK	H: 8 mm + 1 ppm V: 15 mm + 1 ppm	H: 5 mm + 0.5ppm V: 10 mm + 1 ppm
DGPS	H: 0.4 m V: 0.4 m	H: 0.4 m V: 0.7 m
Standalone	H: 1.5 m V: 1.5 m	H: 1.2 m V: 1.9 m
SBAS	H: 1 m V: 1 m	H: 0.6 m V: 0.8 m
Post-processing	H: 2.5 mm + 0.5 ppm V: 5 mm + 0.5 ppm	H: 2.5 mm + 0.5 ppm V: 5 mm + 0.5 ppm
SECORX (PPP)**	-	H: 4 cm V: 7 cm

Data format

DEKART/DEKART-S	DEKART-SE
<ul style="list-style-type: none"> • RTCM 2.X, 3.X • CMR (GPS only) • CMR+ (GPS only) 	<ul style="list-style-type: none"> • RINEX v2.x, v3.x • CMR v2.0 (receive/transmit) • CMR+ (receive only)
<ul style="list-style-type: none"> • NMEA-0183 	<ul style="list-style-type: none"> • NMEA 0183, v2.3, v3.03, V4.0
<ul style="list-style-type: none"> • ComNav Binary (CNB) 	<ul style="list-style-type: none"> • Septentrio Binary (SBF)
<ul style="list-style-type: none"> • Data output frequency up to 20 Hz * 	<ul style="list-style-type: none"> • Data output frequency up to 100 Hz *

Communications

- 1 Lemo7 (f):
- 1 RS232 (up to 230400 bps)
- 1 USB
- 1 external power
- 1 PPS (output)
- Built-in 2W UHF modem*
- 410-470 MHz
- TRIMTALK, TRANSEOT, TRIMMK3
- Built-in 2SIM GSM modem
- 2G/3G: 900/2100 MHz
- Bluetooth
- Wi-Fi 802.11 (APN, client)
- Panoramic indication

Physical

- Size (Ø × h): 180 mm × 110 mm
- Weight: 1250r
- Antenna connector: TNC

Environmental

- Working temperature: -40°C to +70°C
- Storage temperature: -40°C to +85°C
- Humidity: up to 100% (condensation)
- Waterproof and dustproof: IP67, protected from temporary immersion to depth of 1 m
- Shock: designed to survive a 2 m drop onto concrete

Power and memory

- Input voltage: +12.0 V ~ +17.0 VDC
- Power consumption: up to 3 W
- Memory 8 GB (32 GB*)
- Batteries: 3400mAh x 2pcs



* - optional

** - not working at the moment