

GNSS

Multi-SAT Receiver & Antenna

- GPS (USA)
- GLONASS (RUSSIA)
- GALILEO* (EU)
- BEIDOU* (CHINA)



- Powered by SBAS
EGNOS (EU), WAAS (USA),
QZSS (Japan), MSAS (Japan),
GAGAN (India)
- Supported L1 (C/A)
GPS 1575,42 MHz
GLONASS 1602,00 MHz
GALILEO* 1575,42 MHz
BEIDOU 1561,098 MHz
- Latency auto-calibrating
- Internal TCXO
- PLL/FLL technology w/ 1PPS
- RS485 output via RJ45
- Max. distance 0.6km (UTP)
- Max. distance 1.2km (STP)
- Fiber optic connection*
- Heavy Duty
- All weather conditions (IP65)
- Easy to mount
via std. UTP/STP cat. 5
- 100% compatible
NTS-3000, NTS-4000, NTS-5000

 ELPROMA

* extra feature

The new ELPROMA integrated satellite navigation receiver key feature is its ability to work simultaneously with all GNSS that have been deployed so far: GPS, GLONASS, GALILEO, BEIDOU

Available configurations:

Receiver A:

- GPS+GLONASS
- GPS+GALIELO
- GPS+BEIDOU
- GPS+GLONASS+GALIELO
- GPS alone

Receiver B:

- GPS+GLONASS
- GPS+GALIELO
- GPS+BEIDOU
- GPS+GLONASS+GALIELO
- GPS alone

... BOTH RECEIVERS (A/B) ARE REDUNDANT

Technical specification:

- Number of channels: min. 32 (max. 167)
- Satellite access mode: All-in-view
- GPS/GALILEO: L1 C/A 1575.42 MHz
- GLONASS: L1 1597.5–1609.5 MHz
- BEIDOU L1 1561,098 MHz
- SBAS: EGNOS, WAAS, QZSS, MSAS, GAGAN

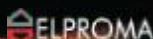
- Accuracy (RMS)
 - horizontal autonomous mode 2.5 m
 - differential mode 1 m
 - height 3 m
 - velocities 0.05 m/s
 - time (1PPS) ± 10 ns
- Time to First Fix*:
 - reacquisition <1 s
 - hot start <3 s
 - cold & warm start 30 s
- Sensitivity:
 - tracking and reacquisition –160 dBm
 - cold start –143 dBm
- Supported:
 - vehicle dynamics velocity 500 m/s
 - acceleration 5g
 - altitude 18000 m
- Coordinate system: WGS-84, PZ-90 SK-42, SK-95
- LNA Built-In (SW controlled for power saving)
- RF structure Two RF FE chains:
GPS/GALILEO/BEIDOU/SBAS/GLONASS L1 C/A CODE
- Antenna type Active1
- Internal Clock 26 MHz TCXO
- Supported protocols
 - IEC1162 (NMEA 0183)
 - BINR (proprietary)
 - RTCM SC 104

Power consumption < 180 mW



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