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 simultaniusly 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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