BPSN-2 GPS / GLONASS / SBAS airborne receiver

BPSN-2 ensures high-accuracy flight navigation for civil aircrafts and helicopters at all flight stages, including non-precision approach. BPSN-2 is intended for use in onboard equipment system as a sensor of navigation parameters and provides flight control including P-RNAV (RNP-1) and P-RNAV (RNP-1) navigation.

Integrated to:

- RRJ-75, RRJ-95, Antonov-124 aircrafts
- Kamov-226, Mil-8, Mil-17, ANSAT helicopters

Main features:

- Comply to KT-34-01 ed. 3 (Russian qualification requirement), TSO-C129A
- WGS-84, PZ-90.02, SK-42 coordinate systems
- GPS L1, GLONASS L1,
- Interference immunity to satellite communication systems (SATCOM, IRIDIUM, GLOBALSTAR)
- SBAS, GBAS augmentation systems support
- 24 GPS/GLONASS/SBAS channels
- FDE, RAIM support
- APV-1, APV-2 and Cat 1 landing (SBAS, GBAS supported) – option

- Interfaces:

  Digital:
  – RS-232 I/O ports – 2 ports
  – ARINC 429 – 7 inputs including: DADS,
  FMS, Differential, CMS
  – ARINC 429 – 3 outputs GPS/GLONASS Data
  – GNSS Time Pulse (in accordance with ARINC743A-4) – 1 channel
  Discrete input -6
  Discrete Output -2

- Operating temperature:
  - -40 to + 55°C (to +70°C for limited time) for receiver
  - -55 to + 85°C for antenna
  - -55 to + 55°C (to + 70 °C for limited time) for Low Noise Amplifier

- Power consumption < 13 W @ 27 V
- Dimensions:
  - Receiver: 244×140x73 mm
  - Antenna: in accordance with ARINC 743A-4

- Weight of the receiver: 2.1 kg