



Shaper S • St

Professional-grade GNSS receiver for Aerial Survey and Defence applications

SHAPER-S series of GNSS receivers is a versatile and flexible solution for any UxS







GNSS Performance

Frequency (Tracking & Position):

544 hardware channels for simultaneous tracking of

SHAPER-S

- GPS: L1 C/A, L1C, L2C, L2 P(Y), L5
- GLONASS: L1 C/A, L2C/A, L2P, L3
- Beidou: B1I, B1C, B2a, B2I, B2b, B3I
- Galileo: E1, E5a, E5b
- QZSS: L1 C/A, L1C/B, L2C, L5
- NavIC: L5
- SBAS: EGNOS, WAAS, GAGAN, MSAS

SHAPER-S+

- GPS: L1 C/A, L1C, L2C, L2 P(Y), L5
- GLONASS: L1 C/A, L2C/A, L2P, L3
- Beidou: B1I, B1C, B2a, B2I, B2b, B3I
- Galileo: E1, E5a, E5b, E5 AltBoc, E6
- QZSS: L1 C/A, L1C/B, L1C, L2C, L5
- NavIC: L5
- SBAS: EGNOS, WAAS, GAGAN, MSAS
- L-band

GNSS Accuracy (RMS)

Single point position:

Horizontal: 1.2 m
Vertical: 1.9 m
Time Precision - 5 ns

DGPS:

Horizontal: 40 cmVertical: 70 cm

RTK:

Horizontal: 0.6 cm + 0.5 ppm
Vertical: 1 cm + 1 ppm

PPK:

Horizontal: 0.6 cm + 0.5 ppm
Vertical: 1 cm + 1 ppm

Key tracking performance in noisy environment

C/N0 thresholding value:

Signals tracking and retention less 20 dB-Hz Signals acquisition 33 dB-Hz

Interfaces:

- Wi-Fi: built-in WEB UI for pre-launch preparation and inspection, including an Interference Tools Kit
- 1 UART (LVTTL)
- 1 Filtered UART (LVTTL)
- 1 COM port (RS-232)
- 1 USB device (2.0, HS)
- 1 Event markers input
- Built-in SD card memory (up to 64 GB) for raw data recording

Connectors Type:

- PA FAMILY Connectors for main interfaces and power
- Type C for USB
- SMA female for antenna

Physical Characteristics:

OEM

Dimension: 86x52x18mm

Weight: 54g **Enclosure**

Dimension: 100x55x28mm

Weight: 120g



