



DELTA

Multi-Purpose GNSS Receiver





Key Features

- All GNSS Constellations
- CORS Receiver
- Portable Base Station
- NTRIP Server & Caster

- Web User Interface
- Bluetooth & WiFi
- · CAN, Event, 1PPS
- External Frequency I/O

The DELTA receiver enclosure is designed for multiple GNSS applications where reliable correction data, timing, and event markers are required. Based on the TRIUMPH-3 ASIC, the receiver tracks all GNSS constellations with patented antijamming, anti-spoofing and multipath reduction technologies to excel with reliability and signal quality.

A simple Web User Interface sets up a Continuously Operating Reference Station (CORS) or Portable Base Station, with integrated NTRIP Caster and Server functions to transmit RTCM corrections via TCP or NTRIP.

DELTA Specifications



Number of Channels 874

 GNSS Constellations
 GPS
 L1 C/A, L1C (P+D), P1, P2, L2C (L+M), L5 (I+Q)

 GLONASS
 L1 C/A, L1 (P+D), P1, P2, L2C, L2 (P+D), L3 (I+Q)

GLONASS L1 C/A, L1 (P+D), P1, P2, L2C, L2 (P+D), L3 (I+Q)
GALILEO E1 (B+C), E5A (I+Q), E5B (I+Q), AltBoc, E6 (B+C)
BeiDou B1, B1C (P+D), B2, B2A (I+Q), B2B (I+Q), AltBOC, B3

QZSS L1 C/A, L1 C/B, L1C (P+D), L2C (L+M), L5 (I+Q), L6 (L61/L62), L1S, L1Sb, L5S SBAS L1, L5 (P+D)

NavIC L1 (P+D), L5, S-band

Position Accuracy (rms) Autonomous (Stand alone) < 2 m SBAS < 1 m

DGPS < 0.5 m

J-Star (PPP) Horizontal: 10 mm

J-Star (PPP)

Single Baseline RTK

Network RTK

Horizontal: 10 mm

Horizontal: 10 mm

Horizontal: 8 mm + 1 ppm

Horizontal: 8 mm + 0.5 ppm

Horizontal: 8 mm + 0.5 ppm

Horizontal: 8 mm + 0.5 ppm

Horizontal: 3 mm + 0.1 ppm

Vertical: 15 mm + 0.5 ppm

Vertical: 3.5 mm + 0.4 ppm

Roll / Pitch / Heading

Roll / Pitch: 0.10 deg, Heading: 0.09 deg (2m baseline)

Time To First Fix Cold Start <35 s

Hot Start < 5 s Reacquisition <1 s RTK Initialization 2 to 6 s

Output Rate Position / Measurements Up to 200 Hz (3S, 3SW), up to 100 Hz (DI,DIW)

Heading Up to 50 Hz (DI, DIW)

Communication Ethernet 10BASE-T/100BASE-TX, 7-pin ODU

Wi-Fi 802.11 a/b/g/n/ac, 5 GHz & 2.4 GHz, R-SMA

Bluetooth 5.1, Class 2, R-SMA

USB 2.0 Host & Device, 5-pin ODU

Serial 2 ports: 1 x RS232, 1 x RS232/RS422, up to 406800 bps, 7-pin ODU

Serial/CAN RS232/RS422, up to 406800 bps, CAN 2.0, 8-pin M12

IRIG Timecode A, B, BNC

1PPS 2 ports, BNC Event Marker 2 ports, BNC

External Frequency I/O BNC GNSS Antenna TNC

Power Input 2 ports, 5-pin ODU, 4.5-40 VDC

Consumption 4.5W, Typical

Physical & Environmental Operating Temperature -40 °C to +75 °C Storage Temperature -40 °C to +85 °C

Storage Temperature -40 °C to +85 °C Humidity 95% MIL-STD-810H M

Shock MIL-STD-810H Method 516.8
Vibration MIL-STD-810H Method 514.8
Dimensions 132 x 61 x 190 mm

Weight 0.75 kg

MODEL Option A (Standard) Option B Option C Back: ANT, EVENT A, 1PPS A, RS/CAN Front: PWR, USB, Port A, Port C, ETHR Back: ANT, Event A, 1PPS A, Frequency I/O DELTA-3S Back: ANT **DELTA-3SW** Front: PWR, PWR2, USB, Port A, Port C, ETHR Back: 1PPS B, EVENT B, 1PPS A, EVENT A, IRIG, BT, RS/CAN, WiFi, ANT Front: PWR, USB, Port A, Port C, ETHR DELTA-DI Back: ANT2, EVENT A, 1PPS A, ANT1 Back: ANT2, RS/CAN, 1PPS A, ANT1 Front: PWR, PWR2, USB, Port A, Port C, ETHR DELTA-DIW Back: EVENT B, 1PPS B, IRIG, ANT2, EVENT A, BT, RS/CAN, WiFi IPPS A, ANT1

GNSS performance is dependent on signal quality, satellite geometry (PDOP), ionospheric and tropospheric conditions, baseline length, multipath effects and RF interference. Specifications may be changed without notice.

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Back: ANT2, ANT1



