DELTA-3S

Multi-Purpose GNSS Receiver

Key Features

- 874 Channels
- All GNSS Constellations
- Ethernet, USB, Serial
- IRIG Serial Time Codes
- CAN, 1PPS, Event
- 64GB Memory

The Delta-3S is a multi-purpose GNSS receiver that may be used as a Reference station receiver for post-processing data logging, as a Continuously Operating Reference Station (CORS) via Ethernet, or as a portable station for base / rover RTK. The Delta-3S provides all interfaces for IRIG time, CANBUS and Event markers for full application flexibility.

DELTA-3S

Number of Channels	874	
GNSS Constellations	GPS	L1 C/A, L1C (P+D), P2, L2C (L+M), L5 (I+Q)
	GLONASS	L1 C/A, P1, P2, L2C, L3 (I+Q)
	Galileo	E1 (B+C) including CBOC (6,1,1/11), E5A (I+Q), E5B (I+Q), AltBoc, E6 (B+C)
	BeiDou	B1, B1C (P+D) including TMBOC (6,1,4/33), B2B (I+Q), B2, B2A (I+Q), AltBoc, B3
	QZSS	L1C (P+D) including TMBOC (6,1,4/33), L2C (L+M), L5 (I+Q), L6 (L61/L62), L1S, L1Sb, L5S
	SBAS	L1, L5 (P+D)
	IRNSS	L5, S
	LBAND	1525 – 1560 MHz
Position Accuracy	Autonomous (Stand alone)	< 2 m
	SBAS	< 1 m
	DGPS	< 0.5 m
	RTK	Horizontal: 0.004 m + 1 ppm Vertical: 0.070 m + 1.5 ppm
	Static/Fast Static	Horizontal: 0.003 m + 0.1 ppm Vertical: 0.004 m + 0.4 ppm
I/O	RS232	Up to 460.8 Kbps
	RS232 / RS422	Two High-speed configurable serial ports, up to 460.8 Kbps
	USB 2.0	Dual-role port device / host
	Ethernet	Full-duplex 10BASE-T/100BASE-TX
	IRIG	Timecode output A134, A137, B124, B137
	Other I / O	CAN 2.0, 1 PPS, Event Marker
Memory	Non-removable	up to 64 GB
Status/Interface	LED's / Keys	2 / 2, Tripad
Power	Input	+4.5 to +35 Volts
	Consumption	4.5W, Typical
Physical & Environmental	Operating Temperature	-40 °C to +80 °C
	Storage Temperature	-40 °C to +85 °C
	Humidity	95%
	Shock	MIL-STD-810H (method 514.8)
	Vibration	MIL-STD-810H (method 514.8)
	Dimensions	109 x 35 x 141 / max 160 mm (4.3 x 1.4 x 5.6 /max 6.3 in)
	Weight	0.42 kg (0.92 lbs)

Option A – Reference station

Back panel: GNSS Antenna

Option B – General Purpose

Back panel:
- GNSS Antenna
- Event
- 1PPS
- Ext. Frequency I/O

Option C – Mobile Applications

Back panel:
- GNSS Antenna
- Event
- 1PPS
- Serial Port D / CAN

Front panel
Interfaces for all modifications: PWR, USB, Serial Port A, Serial Port C, Ethernet

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.