SPECIAL OFFER

www.dgps4u.com

ATLASLINK™ GNSS Smart Antenna

ONLY £2500 including 1 year signal service!*

AtlasLink™ is an all-new multi-GNSS, multi-frequency smart antenna preconfigured to receive corrections from Hemisphere's Atlas™ global corrections service. AtlasLink paired with Atlas provides you with the easiest way to receive Atlas corrections via the industry's most powerful multipurpose GNSS smart antenna either directly from AtlasLink, or into your existing receiver.

No longer be tied to a single corrections provider requiring you to purchase their corrections that can be received by only their device. Whether you utilize Atlas corrections data on equipment that doesn't have the ability to receive L-Band signals, or would like to use Atlas corrections on systems that currently receive L-Band corrections from another source, you now have the freedom to do so. AtlasLink, in SmartLink™ or BaseLink™ mode, enables you to utilize Atlas corrections on any receiver from any vendor that supports industry standard correction formats.

Key Features

- Athena™ RTK engine
- Atlas support over L-Band corrections
- Powerful web UI accessed via WiFi
- Internal memory for data logging, download, and upload
- Environment-proven enclosure for the most aggressive user scenarios

DGPS 4U

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* Land based use only, stock at this price may be limited and offer may be withdrawn at any time

Technical Specifications

AtlasLink™ GNSS Smart Antenna

GNSS Sensor Specifications

Receiver Type	GNSS L1 & L2 RTK with carrier phase
Signals Received	GPS, GLONASS, BeiDou and GALILEO [4]
Channels	270
GPS Sensitivity	-142 dBm
SBAS Tracking	3-channel, parallel tracking
Update Rate	10 Hz standard, 20 Hz optional (with subscription)

Horizontal Accuracy	RMS (67%)	2DRMS (95%)
RTK [2, 3]	10 mm + 1 ppm	20 mm + 2 ppm
L-band high precision service [2,5]	4 cm	8 cm
SBAS (WAAS) [2]	0.3 m	0.6 m
Autonomous, no SA [2]	1.2 m	2.5 m

Pitch / Roll Accuracy	1° using tilt sensor
Timing (1PPS) Accuracy	20 ns
Cold Start	< 60 s typical (no almanac or RTC)
Warm Start	< 30 s typical (almanac and RTC)
Hot Start	< 10 s typical (almanac, RTC, and position)
Maximum Speed	1,850 kph (999 kts)
Maximum Altitude	18,288 m (60,000 ft)

L-band DGNSS Sensor Specifications

Receiver Type	Single Channel
Channels	1530 to 1560 MHz
Sensitivity	-130 dBm
Channel Spacing	5 kHz
Satellite Selection	Manual or Automatic
Reacquisition Time	15 sec (typical)

Communications

Serial Ports	2 full-duplex RS-232, CAN
Interface Level	Atlas GNSS (Web UI)
Baud Rates	4800 - 115200
Correction I/O Protocol	Hemisphere GNSS proprietary, RTCM v2.3 (DGPS), RTCM v3 (RTK), CMR, CMR+[1]
Data I/O Protocol	NMEA 0183, NMEA 2000, Hemisphere GNSS binary, Bluetooth 2.0 (Class 2) and WiFi
Timing Output	1PPS, CMOS, active low, falling edge sync, 10 kΩ, 10 pF load
Event Marker Input	CMOS, active low, falling edge sync, 10 kΩ, 10 pF load

Power

Input Voltage	7 - 32 VDC with reverse polarity operation
Power Consumption	5.4 W nominal (GPS L1/L2, GLONASS L1/ L2, BeiDou B1/B2/B3 and L-Band)
Current Consumption	0.39 A nominal (GPS L1/L2, GLONASS L1/L2, BeiDou B1/B2/B3 and L-Band)
Power Isolation	No
Reverse Polarity Protection	Yes
Antenna Voltage	Internal Antenna

Environmental

Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Humidity	95% non-condensing
Shock and Vibration	Mechanical Shock EP455 Section 5.41.1 Operational Vibration EP455 Section 5.15.1
Random EMC	CE (ISO 14982 Emissions and Immunity), FCC Part 15, Subpart B, CISPR 22
Enclosure	IP67

Mechanical

Dimensions	15.8 L x 15.8 W x 7.9 H (cm) 6.2 L x 6.2 W x 3.2 H (in)
Weight	<1.15 kg (<2.53 lbs)
Status Indications (LED)	Power, GNSS Lock, Bluetooth
Power/Data Connector	12-pin male (metal)
Antenna Mounting	1-14 UNS-2A female adapter, 5/8-11UNC-2B adapter, and flat mount available

1 Receive only, does not transmit this format

2 Depends on multipath environment, number of satellites in view, satellite geometry, and ionospheric activity

3 Depends also on baseline length

4 Upgrade required

5 Requires a subscription from L-band service provider

Note: The Eclipse receiver technology is not designed or modified to use the GPS Y-Code