DAtlasLink™ GNSS Smart Antenna

Expand Your World



- 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



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 SmartLinkTM or BaseLinkTM mode, enables you to utilize Atlas corrections on any receiver from any vendor that supports industry standard correction formats.

AtlasLink is supported by our easy-to-use Atlas Portal (www.atlasgnss.com), which empowers you to update firmware and enable functionality, including Atlas subscriptions for accuracies from meter to sub-decimeter levels.





AtlasLink™ GNSS Smart Antenna

GNSS Sensor Specifications

GNSS L1 & L2 RTK with carrier phase Receiver Type: Signals Received: GPS, GLONASS, BeiDou and GALILEO 4 Channels:

GPS Sensitivity: -142 dBm

SBAS Tracking: 3-channel, parallel tracking 10 Hz standard, 20 Hz optional (with Update Rate:

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)

1,850 kph (999 kts) Maximum Speed:

Maximum Altitude: 18,288 m (60,000 ft)

L-band DGNSS Sensor Specifications

Receiver Type: Single Channel Channels: 1530 to 1560 MHz -130 dBm Sensitivity: Channel Spacing: 5 kHz

Satellite Selection: Manual or Automatic Reacquisition Time: 15 sec (typical)

Communications

2 full-duplex RS-232, CAN Serial Ports: 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

Timing Output: 1PPS, CMOS, active low, falling edge

sync, $10 \text{ k}\Omega$, 10 pF load

Event Marker Input: CMOS, active low, falling edge sync, 10

 $k\Omega$, 10 pF load

Power

Input Voltage: 7 - 32 VDC with reverse polarity

operation

5.4 W nominal (GPS L1/L2, GLONASS L1/ Power Consumption: 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:

Antenna Voltage: Internal Antenna

Environmental

Operating Temperature: -40°C to +70°C (-40°F to +158°F) -40°C to +85°C (-40°F to +185°F) Storage Temperature:

Humidity: 95% non-condensing

Shock and Vibration: Mechanical Shock: EP455 Section 5.41.1

Operational

Vibration: EP455 Section 5.15.1 Random CE (ISO 14982 Emissions and Immunity),

FCC Part 15, Subpart B, CISPR 22

Enclosure: Mechanical

Dimensions:

EMC:

Weight: Status Indications (LED): Power/Data Connector: Antenna Mounting:

15.8 L x 15.8 W x 7.9 H (cm) 6.2 L x 6.2 W x 3.2 H (in) <1.15 kg (<2.53 lbs)

Power, GNSS Lock, Bluetooth 12-pin male (metal)

1-14 UNS-2A female adapter, 5/8-11 UNC-2B adapter, and flat mount

available

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

Authorized Distributor:



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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