

AtlasLink® GNSS Smart Antenna







AtlasLink is a 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 multi-purpose GNSS smart antenna, either directly from AtlasLink or into your existing receiver.

Over are the days of being tied to a single corrections provider who requires you to purchase their corrections, which can only be received by their device. If you use Atlas corrections data on equipment that doesn't have the ability to receive L-band signals, or you 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 use 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 subdecimeter levels.

Key Features

- Atlas® L-band corrections
- Athena™ RTK engine
- Powerful WebUI accessed via Wi-Fi
- Internal memory for data logging, download, and upload
- Environment-proven enclosure for the most aggressive user scenarios

GNSS Receiver Specifications

Receiver Type: Multi-frequency, Multi-GNSS RTK Sianals Received: GPS, GLONASS, BeiDou, and Atlas

Channels: 572 / 488 -142 dBm **GPS Sensitivity:**

3-channel, parallel tracking SBAS Tracking:

Update Rate: 10 Hz standard, 20 Hz optional (with

subscription)

Timing (1 PPS)

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 mph (999 kts)

Maximum

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

Accuracy

Positioning:	RMS (67%)	2DRMS (95%)
Autonomous,		
no SA: 1	1.2 m	2.5 m
SBAS: 1	0.3 m	0.6 m
Atlas H10: 1,3	0.04 m	0.08 m
Atlas H30: 1,3	0.15 m	0.3 m
Atlas Basic: 1,3	0.50 m	1.0 m
RTK: 1	8 mm + 1 ppm	15 mm + 2 ppm

L-Band Receiver Specifications

Receiver Type: Single Channel Channels: 1525 to 1560 MHz

Sensitivity: -130 dBm Channel Spacing: 5 kHz

Satellite Selection: Manual or Automatic

Reacquisition

Time: 15 sec (typical)

Communications

2x full-duplex RS-232, 1x CAN

Interface Level: Atlas GNSS (WebUI) **Baud Rates:** 4800 - 115200

Correction I/O

Protocol: Hemisphere GNSS proprietary ROX

format, RTCM v2.3, RTCM v3.2, CMR4,

CMR+4

Data I/O Protocol: NMEA 0183, NMEA 2000, Hemisphere

GNSS binary, Bluetooth 2.0 (Class 2), Wi-Fi

Timing Output: 1 PPS, CMOS, active high, rising 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

Power

Consumption: 3.4W nominal All Signals + L-band

Current

0.28 A nominal All Signals + L-band

Consumption: **Reverse Polarity**

Yes

Environmental

Operating

Protection:

Temperature: -40°C to +70°C (-40°F to +158°F)

Storage

-40°C to +85°C (-40°F to +185°F) Temperature:

Humidity: 95% non-condensing

Mechanical

Shock: EP455 Section 5.41.1

Vibration: EP455 Section 5.15.1 Random

EMC: CE (ISO 14982 Emissions and Immunity)

FCC Part 15, Subpart B

CISPR 22

IP67 Enclosure:

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)

Weiaht: 1.05 kg (2.53 lbs)

Status Indications

(LED): Power, RTK/Atlas Float, RTK/Atlas Fixed

Power/Data

12-pin male (metal) Connector:

Antenna

Mounting: 1-14 female with 5/8-11 adapter, and flat

1 Depends on multipath environment, number of satellites in view, satellite geometry,

Depends on multiparti environment, number of safetimes in 1001, satetimes grand ionospheric activity
Depends also on baseline length
Requires a subscription from Hemisphere GNSS
CMR and CMR+ do not cover proprietary messages outside of the typical standard



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