

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



# 🖗 atlas

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, which can only be received by their device. Whether you utilize 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<sup>™</sup> or BaseLink<sup>™</sup> 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.

# Hemisphere<sup>®</sup>

precision@hgnss.com www.hgnss.com

# **O**AtlasLink GNSS Smart Antenna

#### GNSS Receiver Specifications Receiver Type: Dual-frequency, multi-GNSS RTK

Receiver Type: Signals Received: Channels: GPS Sensitivity: SBAS Tracking: Update Rate:

Timing (1PPS) Accuracy: Cold Start:

Warm Start: Hot Start:

Maximum Speed:

-142 dBm 3-channel, parallel tracking 10 Hz standard, 20 Hz optional (with subscription) 20 ns < 60 s typical (no almanac, ephemeris, position, or RTC) < 30 s typical (almanac and RTC) < 10 s typical (almanac, ephemeris, position, and RTC) 1,850 kph (999 kts) 18,288 m (60,000 ft)

2DRMS (95%)

0.16 m

0.6 m

2.5 m

20 mm + 2 ppm

GPS, GLONASS, and BeiDou

372

RMS (67%)

0.08 m

0.3 m

1.2 m

10 mm + 1 ppm

## Positioning Accuracy

Maximum Altitude:

Horizontal Accuracy: RTK: <sup>1,2</sup> L-Band: <sup>1,3</sup> SBAS (WAAS): <sup>1</sup> Autonomous, no SA: <sup>1</sup>

#### L-Band Receiver Specifications

Receiver Type: Channels: Sensitivity: Channel Spacing: Satellite Selection: Reacquisition Time: fications Single Channel 1530 to 1560 MHz -130 dBm 5.0 kHz Manual and Automatic 15 seconds (typical)

2 full-duplex RS-232, CAN

Hemisphere GNSS proprietary, RTCM v2.3

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

NMEA 0183, NMEA 2000, Hemisphere GNSS

1PPS, CMOS, active low, falling edge sync, 10

CMOS, active low, falling edge sync, 10 k $\Omega,$  10

Atlas GNSS (webUI)

(DGPS), RTCM v3 (RTK)

4800-115200

kΩ, 10 pF load

pF load

### **Communications**

Serial Ports: Interface Level: Baud Rates: Correction I/O Protocol:

Data I/O Protocol:

Timing Output:

Event Marker Input:

Power

Input Voltage: Power Consumption:

Current Consumption:

Power Isolation: Reverse Polarity Protection: Antenna Voltage:

## Environmental

Operating Temperature: Storage Temperature: Humidity: Shock and Vibration:

EMC:

Enclosure:

Mechanical Dimensions:

Weight: Status Indications (LED): Power/Data Connector: Antenna Mounting: 7-32 VDC with reverse polarity operation 4.5 W nominal (L1/L2 GPS/GLONASS/ BeiDou; L-band) 0.38 A nominal (L1/L2 GPS/GLONASS/ BeiDou; L-band) No Yes Internal Antenna

-40°C to +70°C (-40°F to +158°F) -40°C to +85°C (-40°F to +185°F) 95% non-condensing 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 IP67

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, flat mount available

<sup>1</sup> Depends on multipath environment, number of satellites in view, satellite

geometry, and ionospheric activity

<sup>2</sup> Depends also on baseline length

<sup>3</sup> Requires a subscription from Hemisphere GNSS

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