

## AtlasLink® GNSS Smart Antenna

### **Expand Your World**

- Atlas® L-band corrections
- Athena™ 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





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 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™ or BaseLink™ 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.





#### **GNSS Receiver Specifications**

Multi-frequency, Multi-GNSS RTK Receiver Type: Signals Received: GPS, GLONASS, and BeiDou Channels: 227

GPS Sensitivity: -142 dBm

3-channel, parallel tracking SBAS Tracking:

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

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

#### Accuracy

Position: RMS (67%) 2DRMS (95%) 2.5 m Autonomous, no SA: 1 1.2 m SBAS:  $0.3 \, \text{m}$ 0.6 m Atlas H10 (L-band): 1,3 0.04 m 0.08 m Atlas H30 (L-band): 1,3 0.15 m 0.30 m Atlas Basic (L-band): 1,3  $0.50 \, \text{m}$ 1.0 m

15 mm + 2 ppm RTK: 8 mm + 1 ppm

#### L-Band Receiver Specifications

Receiver Type: Single Channel 1525 to 1560 MHz Channels: Sensitivity: -130 dBm Channel Spacing: 5.0 kHz

Satellite Selection: Manual and Automatic Reacquisition Time: 15 seconds (typical)

#### **Communications**

Serial Ports: 2 x full-duplex (RS-232)

1 x CAN

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

Correction I/O Protocol: Hemisphere GNSS proprietary, RTCM v2.3

(DGPS), RTCM v3 (RTK)

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

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

1PPS, CMOS, active high, rising edge sync, 10 Timing Output:

 $k\Omega$ , 10 pF load

Event Marker Input: CMOS, active low, falling edge sync,  $10 \text{ k}\Omega$ , 10

pF load

#### **Power**

Input Voltage: 7-32 VDC Power Consumption: Current Consumption: Reverse Polarity Protection:

3.4W nominal All Signals + L-band 0.28 A nominal All Signals + L-band

#### Environmental

Operating Temperature: Storage Temperature: Humidity: Mechanical Shock: Vibration:

EMC:

Enclosure:

#### Mechanical

Dimensions:

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

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

EP455 Section 5.41.1 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) 1.05 kg (2.53 lbs)

Power, RTK/Atlas Float, RTK/Atlas Fixed

12-pin male (metal)

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

- 1 Depends on multipath environment, number of satellites in view, satellite geometry, and
- 2 Depends on multipath environment, number of satellites in view, SBAS coverage, satellite geometry, and ionospheric activity
- 3 Hemisphere GNSS proprietary
- 4 With future firmware upgrade and activation

# Authorized Distributor:

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