

- •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



Patias

atlas

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.



precision@hgnss.com www.hgnss.com

AtlasLink GNSS Smart Antenna

GNSS Receiver Specifications Multi-frequency, Multi-GNSS RTK

227

20 ns

-142 dBm

Receiver Type: Signals Received: Channels: GPS Sensitivity: SBAS Tracking: Update Rate: Timing (1PPS) Accuracy: Cold Start: Warm Start: Hot Start: Maximum Speed: Maximum Altitude:

Accuracy

Position: Autonomous, no SA: 1 SBAS: Atlas H10 (L-band): ^{1,3} Atlas H30 (L-band): 1,3 Atlas Basic (L-band): ^{1,3} RTK:

L-Band Receiver Specifications

Receiver Type: Channels: Sensitivity: Channel Spacing: Satellite Selection: Reacquisition Time: Single Channel 1525 to 1560 MHz -130 dBm 5.0 kHz Manual and Automatic 15 seconds (typical)

2 x full-duplex (RS-232)

GPS, GLONASS, and BeiDou

3-channel, parallel tracking

60 s typical (no almanac or RTC)

10 s typical (almanac, RTC and position)

30 s typical (almanac and RTC)

1,850 kph (999 kts)

18,288 m (60,000 ft)

RMS (67%)

1.2 m

0.3 m

0.04 m

0.15 m

0.50 m

8 mm + 1 ppm

10 Hz standard, 20 Hz optional (with activation)

2DRMS (95%)

15 mm + 2 ppm

2.5 m

0.6 m

0.08 m

0.30 m

1.0 m

Communications

Serial Ports:

	1 x CAN
Interface Level:	Atlas GNSS (webUI)
Baud Rates:	4800-115200
Correction I/O Protocol:	Hemisphere GNSS proprietary, RTCM v2.3
	(DGPS), RTCM v3 (RTK)
Data I/O Protocol:	NMEA 0183, NMEA 2000, Hemisphere GNSS
	binary, Bluetooth 2.0 (Class 2), Wi-Fi
Timing Output:	1PPS, CMOS, active high, rising edge sync, 10
	kΩ, 10 pF load
Event Marker Input:	CMOS, active low, falling edge sync, $10 \text{ k}\Omega$, 10
	pFload

Power

Input Voltage: Power Consumption: Current Consumption: **Reverse Polarity Protection:**

Environmental

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

Enclosure:

Mechanical Dimensions:

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

7-32 VDC 3.4W nominal All Signals + L-band 0.28 A nominal All Signals + L-band Yes

-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 ionospheric activity

10

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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