

A326 GNSS Smart Antenna

GNSS SMART ANTENNA FOR MACHINE CONTROL SYSTEMS



Vatlas[®]

The A326 is an all-new multi-GNSS, multi-frequency smart antenna. Showcasing fast start-up and reacquisition times, and an easy-to-see status indicator for power, GNSS, and Bluetooth. The durable enclosure houses the high precision antenna element and GNSS receiver. Resulting in the A326 smart antenna being ideal for a variety of applications. The available multiple communication ports, such as Bluetooth, Wi-Fi, dual-Serial, and CAN options make the A326 compatible with almost any interface. The easy-touse WebUI allows the user to wirelessly monitor and configure the A326 with any Wi-Fi capable device, making the A326 one of the most versatile GNSS smart antennas in the world.

Athena[™] RTK

The A326 GNSS Smart Antenna uses Hemisphere GNSS' next-generation Athena RTK engine. Athena offers world class performance in the areas of initialization time, robustness in very difficult operating environments, superior performance over long RTK baselines, and exceptional reliability in scintillation conditions. (www.atlasgnss.com), which empowers you to update firmware and enable functionality, including Atlas subscriptions for accuracies from meter to sub decimeter levels.

A326 is supported by our easy-to-use Atlas Portal

Atlas[®] GNSS Global Corrections

A326 is Atlas ready, and capable of receiving corrections from Hemisphere's Atlas Global Correction Service.

Key Features

- Atlas GNSS Global Correction Service
- Athena RTK engine
- Powerful WebUI accessed via Wi-Fi
- Internal memory for data logging, download, and upload
- Durable enclosure is proven to withstand aggressive environments

GNSS Receiver Specifications

GNSS Position RTK Receiver
GPS, GLONASS, Galileo, BeiDou, QZSS
572 / 488
-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)
18,000 m (59,055 ft)

Accuracy

Positioning: Autonomous,	RMS (67%)	2DRMS (95%)
no SA: 1	1.2 m	2.5 m
SBAS: 1	0.3 m	0.6 m
Atlas: 1,3	0.08 m	0.16 m
RTK: ^{1,2}	8 mm + 1 ppm	15 mm + 2 ppm

L-Band Receiver Specifications

Receiver Type: Single Channel 1530 to 1560 MHz Channels: Sensitivity: -130 dBm Channel Spacing: 5 kHz Satellite Selection: Manual or Automatic Reacquisition 15 sec (typical) Time:

Communications

Ports:	2 full-duplex RS-232, 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, CMR ⁵ ,	
	CMR+ ⁵	
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 kΩ, 10 pF load	
Event Marker		
Input:	CMOS, active low, falling edge sync, 10	
	kΩ, 10 pF load	

Power

Input Voltage: Power	7-32 VDC
Consumption:	4.5 W nominal (L1/L2 GPS/GLONASS/
	BeiDou, L-band)
Current	
Consumption:	0.38 A nominal (L1/L2 GPS/GLONASS/
	BeiDou, L-band)
Power Isolation:	No
Reverse Polarity	
Protection:	Yes

Environmental

Enclosure:	IEC60945), Radio Equipment Directive 2014/53/EU, E-Mark, RCM IP67
EMC:	Method 514.7 Category 24) CE (ISO14982/EN13309/ISO13766/
Vibration:	w/Change 1 Method 516.7 Procedure 1) 7.7Grms (MIL-STD-810G w/Change 1
Shock:	50G, 11ms half sine pulse (MIL-STD-810G
Mechanical	
Humidity:	95% non-condensing
Storage Temperature:	-40°C to +85°C (-40°F to +185°F)
Operating Temperature:	-40°C to +70°C (-40°F to +158°F)

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)
Weight:	< 1.15 kg (< 2.53 lbs)
Status Indications	
(LED):	Power, GNSS Status, Bluetooth, Wi-Fi
Power/Data	
Connector:	12-pin male
Antenna	
Mounting:	1-14 UNS-2A female adapter, 5/8-11 UNC 2B adapter, flat mount available

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

2. 3.

and ionospheric activity Depends also on baseline length Requires a subscription from Hemisphere GNSS With L5 option 5 With B3 option CMR and CMR+ do not cover proprietary messages outside of the typical standard 4. 5.



Hemisphere GNSS

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