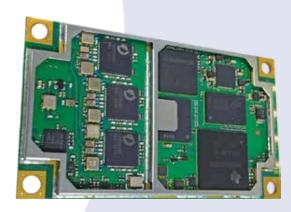
Declipse P326 and P327 OEM Modules

Experience Multi-Frequency, Multi-GNSS Athena[™] RTK and

on-board Atlas® L-Band

- Uses GPS, GLONASS, and BeiDou; Galileo and QZSS ready
- Long-range RTK baselines up to 50 km with fast acquisition times
- Compatible with many RTK sources including Hemisphere GNSS' ROX Format, RTCM, CMR, CMR+
- Mechanically and electrically (pin-forpin) compatible with many Hemisphere and other manufacturers' modules
- Atlas L-band corrections providing position accuracy down to 2 cm RMS, positioning sustainability with Tracer technology, and convergence time as low as 10 minutes
- Athena GNSS engine providing best-inclass RTK performance



Experience Multi-Frequency, Multi-GNSS Athena™ RTK engine and Atlas® L-Band

Position with RTK accuracy and Atlas L-Band corrections using multiple satellite systems. Hemisphere GNSS' new Eclipse[™] P326 and P327 OEM modules use GPS, GLONASS and BeiDou and are Galileo and QZSS ready. Track more signals for unparalleled positioning performance even in challenging environments. Maintain your position performance during correction signal outages with our newly development Tracer technology.

Scalable Solutions

Position with RTK accuracy and Atlas L-Band corrections using multiple satellite systems. Hemisphere GNSS' new Eclipse P326 and P327 OEM modules use GPS, GLONASS and BeiDou and are Galileo and QZSS ready. Track more signals for unparalleled positioning performance even in challenging environments. Maintain your position performance during correction signal outages with our newly development Tracer technology.

Ease of Migration

Leverage the compact size and easy integration in your design. The 34 pin P326 module is a drop-in upgrade for many Hemisphere products. P327 is a drop-in upgrade for existing designs using standard 20 pin modules from other manufacturers.



Precision@HGNSS.com www.HGNSS.com

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GPS Sensor Specifications

Receiver Type:

Signals Received:

Channels: GPS Sensitivity: SBAS Trackina: Update Rate: Horizontal Accuracy: RMS (67%): RTK: SBAS (WAAS): 2 Autonomous, no SA: ² Timing (1PPS) Accuracy: Cold Start: Warm Start: Hot Start:

Maximum Speed: Maximum Altitude: Differential Options:

L-Band Sensor Specifications

Receiver Type: Channels: Sensitivity: Channel Spacing: Satellite Selection: Reacquisition Time:

Communications Serial Ports:

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

Data I/O Protocol: Timing Output:

Event Marker Input:

GNSS multi-frequency RTK with carrier phase GPS L1CA, L1P, L1C, L2P, L2C, L5 GLONASS G1, G2, P1, P2 BeiDou B1, B2 (B3 separate variant without L5) GALILEO E1BC, E5a, E5b QZSS L1CA, L2C, L5, L1C 372 -142 dBm 3-channel, parallel tracking

1 Hz standard, 10 or 20 Hz optional

Horizontal Vertical 8 mm + 1 ppm 15 mm + 2 ppm 0.3 m 0.6 m 1.2 m 2.4 m 20 ns < 60 s typical (no almanac or RTC) < 30 s typical (almanac and RTC) < 10 s typical (almanac, RTC and position) 1,850 kph (999 kts) 18,288 m (60,000 ft)

SBAS, Autonomous, External RTCM, RTK, L-band (Atlas) DGPS

Single Channel 1525 to 1560 MHz -140 dBm 50 kHz Manual and Automatic 15 seconds (typical)

4 full-duplex 3.3 V CMOS (3 main serial ports, 1 differential-only port), 1 USB Host, 1 USB Device, 2 CAN 3.3V CMOS 4800 - 115200 Hemisphere GNSS proprietary, ROX Format, RTCM v2.3, RTCM v3.2, CMR, CMR+ NMEA 0183, Crescent binary³ 1PPS, CMOS, active high, rising edge sync, 10 k Ω , 10 pF load CMOS, active low, falling edge sync, 10 kΩ, 10 pF load

Power Input Voltage:

Power Consumption: Current Consumption:

Antenna Voltage: Antenna Short Circuit Protection: Antenna Gain Input Range: Antenna Input Impedance:

Environmental

Operating Temperature: Storage Temperature: Humidity:

Shock and Vibration:

Mechanical Dimensions:

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

Antenna Connectors:

3.3 VDC +/- 5% 1.9 W GPS L1/L2 GLONASS G1/G2 2.33 W all signals no L-Band 2.9 W with L-Band 770 mA nominal dual frequency GPS + GLONASS + BeiDou 15 VDC maximum

Yes

10 to 40 dB

50 O

-40°C to +85°C (-40°F to +185°F) -40°C to +85°C (-40°F to +185°F) 95% non-condensing (when installed in an enclosure) Shock: Mechanical Shock: EP455 Section 5.14.1 Operational (when mounted in an enclosure with screw mounting holes utilized) Vibration: EP455 Section 5.15.1 Random

P326: 71 L x 41 W x 13 H (mm) P327: 72 L x 41 W x 13 H (mm) 22 g (< 0.78 oz) Power, GPS lock, Differential lock, DGPS position . P326: 34-pin male header, 0.05" (1.27 mm) pitch P327: 20-pin male header, 0.08" (2 mm) pitch MCX, female, straight

1 Depends on multipath environment, number of satellites in view, satellite geometry baseline length (for local services) and ionospheric activity

2 Depends on multipath environment, number of satellites in view, satellite geometry and ionospheric activity

3 Hemisphere GNSS proprietary

Authorized Distributor:



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