



RECEPTOR GNSS



A631



ESPECIFICACIONES TÉCNICAS

GNSS Receiver Specifications

Receiver Type: Multi-Frequency GPS, GLONASS, BeiDou, Galileo, QZSS, and Atlas

Signals Received: GPS L1CA/L1P/L1C/L2P/L2C/L5
GLONASS G1/G2/G3/P1/P2
BeiDou B1i/B2i/B3i/B10C/B2A/B2B/ACEBOC
Galileo E1BC/E5a/E5b/E6BC/ALTBOC
QZSS L1CA/L2C/L5/L1C/LEX/IRNS L5
Atlas

Channels: 800+

GPS Sensitivity: -142 dBm

SBAS Tracking: 3-channel, parallel tracking

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

Timing (1 PPS)

Accuracy: 20 ns

Cold Start: 60 s typical (no almanac 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)

Maximum Altitude: 18,000 m (59,055 ft)

Accuracy

Positioning:	RMS (67%)	2DRMS (95%)
Autonomous, no SA: ¹	1.2 m	2.5 m
SBAS: ¹	0.3 m	0.6 m
Atlas H10: ^{1,3}	0.04 m	0.08 m
Atlas H30: ^{1,3}	0.15 m	0.3 m
Atlas Basic: ^{1,3}	0.50 m	1.0 m
RTK: ^{1,2}	8 mm + 1 ppm	15 mm + 2 ppm

L-Band Receiver Specifications

Receiver Type: Single Channel

Channels: 1530 to 1560 MHz

Sensitivity: -130 dBm

Channel Spacing: 5 kHz

Satellite Selection: Manual or Automatic

Reacquisition Time: 15 sec (typical)

Event Marker

Input: CMOS, active low, falling edge sync, 10 kΩ, 10 pF load

Data & Storage

Storage Type: 16 GB (internal)

Power

Input Voltage: 7-32 VDC

Power Consumption: 2.0 W nominal (L1/L2 GPS/GLONASS; L-band)

Current

Consumption: 0.17 A nominal (L1/L2 GPS/GLONASS; L-band)

Power Isolation

Reverse Polarity Protection: No

Antenna Voltage: Yes

Antenna Voltage: Internal Antenna

Environmental

Operating Temperature: -40°C to +70°C (-40°F to +158°F)

Storage Temperature: -40°C to +85°C (-40°F to +185°F)

Humidity: 95% non-condensing

Mechanical

Shock: MIL-STD-810H, Method 516.8 Procedure I, Operational, 50G half sine 11ms

Vibration: MIL-STD-810H, Method 514.8, Procedure I, General vibration Category 24 E1

EMC: CE, FCC Part 15, Subpart B, CISPR 32

Enclosure: IP67





Communications

Ports: 2 full-duplex RS-232, CAN
Baud Rates: 4800 - 460,800
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: 1 PPS, CMOS, active low, falling edge sync, 10 kΩ, 10 pF load

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: < 1.05 kg (< 2.53 lbs)
Status Indications (LED): Power, GNSS Lock
Power/Data Connector: 12-pin male (metal)
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, and ionospheric activity
2. Depends also on baseline length
3. Hemisphere GNSS Proprietary



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