



RECEPTOR GNSS



R330



ESPECIFICACIONES TÉCNICAS

GNSS Receiver Specifications

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

Signals Received: GPS, GLONASS, BeiDou, Galileo, and Atlas

Channels: 227

GPS Sensitivity: -142 dBm

SBAS Tracking: 3-channel, parallel tracking

Update Rate: 10 Hz standard, 20 Hz optional

Timing (1 PPS)

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)

Antenna Input

Impedance: 50 Ω

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: ²	0.3 m	0.6 m
Atlas H10: ^{3,5}	0.04 m	0.08 m
Atlas H30: ^{3,5}	0.15 m	0.30 m
Atlas Basic: ^{3,5}	0.50 m	1.0 m
RTK: ⁴	8 mm + 1 ppm	15 mm + 2 ppm

Beacon Receiver Specifications

Channels: 2-channel parallel tracking

Frequency Range: 283.5 to 325.0 kHz

Operating Modes: Manual, Automatic, and Database

Compliance: IEC 61108-4 beacon standard

L-Band Receiver Specifications

Receiver Type: Single Channel

Channels: 1525 to 1560 MHz

Sensitivity: -130 dBm

Channel Spacing: 5 kHz

Satellite Selection: Manual or Automatic

Reacquisition Time: 15 sec (typical)

Power

Input Voltage: 8-36 VDC

Power Consumption: 2.8W nominal All Signals + L-band

Current Consumption: 0.24 A nominal All Signals + L-band

Reverse Polarity Protection: Yes

Antenna Voltage Output: 5 VDC maximum

Antenna Short Circuit Protection: Yes

Antenna Gain Input Range: 10 to 40 dB

Environmental

Operating Temperature: -30°C to +70°C (-22°F to +158°F)

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

Humidity: 95% non-condensing

Mechanical Shock: EP455 Section 5.41.1 Operational

Vibration: EP455 Section 5.15.1 Random

EMC: CE (IEC 60945 Emissions and Immunity) FCC Part 15, Subpart B CISPR22

Mechanical

Dimensions: 17.8 L x 12.0 W x 4.6 H (cm)
7.0 L x 4.7 W x 1.8 H (in)

Display: LED

Weight: 0.65 kg (1.42 lbs)

Status Indications (LED): Power, GNSS lock, Differential lock

Power Switch: Soft Switch

Power Connector: 2-pin metal ODU

Data Connector: 2 x DB9 (female)
2 x USB-A

Antenna Connector: TNC (female), straight





Communications

Ports: 2 x full-duplex (RS-232)
1 x USB Host
1 x USB Device

Baud Rates: 4800 - 115200

Correction I/O Protocol: Hemisphere GNSS proprietary RMX format, RTCM v2.3, RTCM v3.2, CMR[®], CMR+[®]

Data I/O Protocol: NMEA 0183, Hemisphere GNSS binary [®]

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



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