



RECEPTOR GNSS



VECTOR VS 1000



ESPECIFICACIONES TÉCNICAS

GNSS Receiver Specifications

Receiver Type:	Vector GNSS RTK Receiver	
Signals Received:	GPS, GLONASS, BeiDou, Galileo, & Atlas ³	
Channels:	1059	
GPS Sensitivity:	-142 dBm	
SBAS Tracking:	2-channel, parallel tracking	
Update Rate:	10 Hz standard, 20 Hz optional	
Timing (1PPS)		
Accuracy:	20 ns	
Rate of Turn:	100°/s maximum	
Cold Start:	60 s (no almanac or RTC)	
Warm Start:	30 s typical (almanac and RTC)	
Hot Start:	10 s typical (almanac, RTC and position)	
Heading Fix:	10 s typical (valid position)	
Antenna Input Impedance:	50 Ω	
Maximum Speed:	1,850 kph (999 kts)	
Maximum Altitude:	18,000 m (59,055 ft)	
Differential Options:	SBAS, Atlas (L-band), RTK	

Accuracy

Positioning:	RMS (67%)	2DRMS (95%)
Single Point: ¹	2.4 m	
SBAS: ²	0.6 m	
Atlas H10: ⁶	0.08 m	0.16 m
Atlas H30: ⁶	0.3 m	
Atlas Basic: ⁶	0.5 m	
RTK: ^{1,3}	8 mm + 1 ppm	15 mm + 2 ppm
Heading (RMS):	0.2° @ 0.5 m antenna separation 0.1° @ 1.0 m antenna separation 0.05° @ 2.0 m antenna separation 0.02° @ 5.0 m antenna separation 0.01° @ 10.0 m antenna separation	
Pitch/Roll (RMS):	1°	
Heave (RMS):	30 cm (DGPS) ¹ , 10 cm (Atlas) ^{1,6} , 5 cm (RTK) ^{1,6}	

L-Band Receiver Specifications

Channels:	1525 to 1560 MHz
Sensitivity:	-130 dBm
Channel Spacing:	5 kHz
Satellite Selection/Reacquisition	Manual or Automatic
Time:	15 sec (typical)

Communications

Ports:	1x CAN, 1x Ethernet, 1x USB, 1x 12-pin multi-purpose (RS232, RS422, CAN, 1PPS, Event Marker)
Baud Rates:	4800 - 115200
Radio Interfaces:	Bluetooth 2.0 (Class 2), Wi-Fi 2.4 GHz
Correction I/O Protocol:	Hemisphere GNSS proprietary ROX format, RTCM v2.3, RTCM v3.2, CMR ⁷ , CMR+ ⁷
Data I/O Protocol:	NMEA 0183, Hemisphere GNSS binary
Timing Output:	1PPS (CMOS, rising edge sync)
Event Marker Input:	Open drain, falling edge sync, 10 kΩ, 10 pF load

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
Enclosure:	ISO 60529:2013 for IPx6/IPx7
Vibration:	IEC 60945:2002 Section 8.7 Vibration
EMC:	IEC 60945:2002, EN 301 489-1 V2.1.1, EN 301 489-5 V2.1.1, EN 301 489-19 V2.1.0, EN 303 413 V1.1.1

Mechanical

Dimensions:	
No Plate:	23.2 L x 16.5 W x 7.9 H (cm) 9.1 L x 6.5 W x 3.1 H (in)
With Plate:	23.2 L x 21.4 W x 8.3 H (cm) 9.1 L x 8.4 W x 3.3 H (in)
Display:	128 x 64 Resolution
Weight:	1.7 kg (3.8 lb)
Status Indications (LED):	Power, Primary Antenna, Secondary Antenna, Heading, Quality, Atlas, Bluetooth, Wi-Fi, CAN, Ethernet
Power/Data Connector:	M12 CAN/Power, 12-pin multi-purpose, RJ45, USB
Antenna Connectors:	BT/Wi-Fi



Aiding Devices

Gyro:

Provides fast reacquisition and reliable heading for short periods when loss of GNSS has occurred

Tilt Sensors:

Provide pitch, roll data and assist in fast start-up and reacquisition of heading solution



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