



RECEPTOR GNSS



VECTOR V500



ESPECIFICACIONES TÉCNICAS

GNSS Receiver Specifications

Receiver Type:	Vector GNSS RTK Receiver
Signals Received:	GPS, GLONASS, BeiDou, Galileo, QZSS ⁷ , IRNSS ⁷ , and Atlas
Channels:	1059
GPS Sensitivity:	-142 dBm
SBAS Tracking:	2-channel, parallel tracking
Update Rate:	10 Hz standard, 20 Hz optional
Timing (1 PPS)	
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

Position:	RMS (67%)	2DRMS (95%)
Single Point: ¹	2.4 m	-
SBAS: ²	0.6 m	-
Atlas H10: ⁴	0.08 m	0.16 m
Atlas H30: ⁴	0.3 m	-
Atlas Basic: ⁴	0.5 m	-
RTK: ^{1,3}	8 mm + 1 ppm	15 mm + 2 ppm
Heading (RMS):	0.27°	
Pitch/Roll (RMS):	1°	
Heave (RMS):	30 cm (DGPS) ¹ , 10 cm (Atlas) ^{1,4} , 5 cm (RTK) ^{1,4}	

L-Band Receiver Specifications

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:	9 - 32 VDC
Power Consumption:	7.5 W maximum
Current Consumption:	1.8 A maximum
Power Isolation:	No
Reverse Polarity	
Protection:	Yes

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/IPx9
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 V2.1.1
	EN 303 413 V1.1.1

Mechanical

Dimensions:	68.6 L x 22.0 W x 12.3 H (cm) 27.0 L x 8.7 W x 4.8 H (in)
Weight:	3.7 kg (8.2 lb)
Status Indications (LED):	Power, GNSS Lock, Heading
Power/Data	
Connector:	22-pin environmentally sealed

Aiding Devices

Gyro:	Provides smooth heading, fast heading reacquisition and reliable < 1° per min heading for periods up to 3 min, when loss of GPS has occurred ⁴
Tilt Sensors:	Provide pitch, roll data and assist in fast start-up and reacquisition of heading solution





Oceanografía

Meteorología

Drones/RPAS

Hidrografía

Topografía

Communications

Ports: 1x full-duplex RS-232/RS-422, 1x RS232, 2x CAN, 1x Ethernet

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[®], CMR+[®]

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

Timing Output: 1 PPS (CMOS, rising edge sync)

Event Marker Input: Open drain, falling edge sync, 10 k Ω , 10 pF load



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Ubícanos en:

Av. Las Palmeras N° 5334
Los Olivos 15304



<https://www.oceanproo.net>

+51 933302313

 cotizaciones@bidhumva.com