



**SI-TEX VECTOR PRO
SPECIFICATIONS
GPS SENSOR SPECIFICATIONS**

Receiver Type	Twin Receivers w/ L1, C/A code, with carrier phase smoothing
Channels	Two 12-channel, parallel tracking, (Two 10-channel when tracking WAAS)
Update Rate	Standard 20 Hz Adjustable (position and heading) < 0.6 m 95% confidence (DGPS)* < 2.5 m 95% confidence (autonomous, no S A)**
Horizontal Accuracy	
Heading Accuracy	< 0.3° rms
Pitch / Roll Accuracy	< 1° rms
Rate of Turn	90°/s max
Start up Time	< 60s typical
Heading Fix	< 20s
Satellite Reacquisition	< 1s

BEACON SENSOR SPECIFICATIONS (G2B version)

Channels	2-channel, parallel tracking
Frequency Range	283.5 to 325 kHz
Operating Modes	Automatic (signal strength or range) and manual
Compliance	IEC 611 08-4 beacon standard

COMMUNICATIONS

Serial ports	2 full duplex RS-232 and 2 half-duplex RS-422
Baud Rates	4800-57600 RTCM SC-1 04, L-Dif (Hemisphere GPS solution proprietary)

Correction I/O Protocol	
Data I/O Protocol	NMEA 0 183

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	100% non-condensing FCC Part 15, Subpart B, Class B Update Rate: Standard 20 Hz Adjustable (position and heading) CISPR22, CE
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EMC

POWER

Input Voltage	9 to 36 VDC
Power Consumption	<5 w
Current Consumption	<360 mA@12 VDC



Isolation	Power supply isolated from serial ports
Reverse Polarity Protection	Yes
MECHANICAL	
Dimensions (not including mounts)	60 cm L x 16 cm W x 18 cm H (23.6" L x 6.3" W x 7.1" H)
Weight	1.5 kg (3.3 lb)
Power/Data Connector:	18-pin, Environmentally sealed
Aiding Devices	
Gyro	Single axis gyro provides <math><1^\circ</math> heading for periods up to 3 minutes when loss of GPS lock has occurred
Tilt Sensor	Assists in fast start up of RTK

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

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