



## SI-TEX VECTOR 3D GPS SPECIFICATIONS

<b>Receiver Type</b>	L1, C/A code, with carrier phase smoothing Two 12-channel parallel tracking (Two 10 channel when tracking SBAS)
<b>Channels</b>	
<b>Update Rate</b>	Standard 10Hz, optional 20 Hz (position and heading)
<b>Horizontal Accuracy</b>	< 1.0m (DGPS)* < 4.0m (autonomous, no SBAS)**
<b>Heading Accuracy</b>	~ 0.6°
<b>Pitch / Roll Accuracy</b>	~ 1.4°
<b>Rate of Turn</b>	90° / sec max
<b>Start up Time</b>	< 60 sec typical
<b>Heading Fix</b>	< 10 sec
<b>Satellite Reacquisition</b>	< 1 sec
<b>COMMUNICATIONS</b>	
<b>Serial Ports</b>	2 full duplex RS-232
<b>Baud Rates</b>	4800 - 115200
<b>Correction I/O Protocol</b>	RTCM SC-104
<b>Data I/O Protocol</b>	NMEA 0183, NMEA 2000 \$GPHDT, \$HEHDT, \$HEHDM, \$GPROT, \$GHEROT, \$GPGGA, \$GPGSV, \$GPVTG, \$GPRMC, \$GPZDA, \$PASHR
<b>NMEA Heading Messages</b>	
<b>COMMUNICATIONS</b>	
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<b>NMEA Heading Messages</b>	
<b>ENVIRONMENTAL</b>	
<b>Operating Temperature</b>	-30°C to +70°C (-22°F to + 158°F)
<b>Storage Temperature</b>	-40°C to +85°C (-40°F to + 185°F)
<b>Humidity</b>	95% non-condensing
<b>EMC</b>	



FCC Part 1.5, Subpart B, Class B, CISPR22, CE

**POWER**

**Input Voltage** 10 to 36 VDC

**Power**

**Consumption** < 3 W nominal

**Current**

**Consumption** < 250 mA @ 12 VDC

**Isolation**

Isolated to enclosure

**Reverse Polarity**

**Protection**

Yes

**Power/Data**

**Connection**

12-pin, female, R/A, IP67

**AIDING DEVICES**

**Gyro**

Provides reliable < 1° Heading for up to 3 minutes when loss of GPS has occurred

Assists in fast start-up of heading solution \* Depends on multipath environment, antenna selection, number of satellites in view, satellite geometry, baseline length (for local services), and ionospheric activity

**Tilt Sensor**

\*\* Depends on multipath environment, number of satellites in view, and satellite geometry

**ADDITIONAL**

**OPTIONS:**

- 15m NMEA 0183 Serial Data Cable
- 6m NMEA 2000 Cable
- Color LCD Sunlight NX3 Instrument Display