**GPS Tracking Receiver**

**38501 Series**

*Space Vector* produces a rugged GPS Receiver package suitable for launch vehicles, spacecraft, UAVs and other applications encountering severe environmental conditions.

**Features**
- Provides real-time S-Band downlink of GPS at 20 Hz sample rate
- Maintains track even under high dynamic missile environments
- Modular design facilitates changing of components
- Open architecture allows for rapid addition of new capabilities
- RF isolation in each module prevents any leakage from corrupting other processor/com/power subsystems
- Range qualified

**Specifications**

<table>
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<tr>
<th>Weight:</th>
<th>5.5 lbs</th>
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<tbody>
<tr>
<td>Dimensions (inches):</td>
<td>5.0 W x 3.0 H x 7.3 L</td>
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<tr>
<td>Operating Voltage Range:</td>
<td>24 - 32 VDC</td>
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<td>Allowable Frequencies:</td>
<td>GPS L1 (1575 MHz +/-10 MHz)</td>
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| Dynamic Operational Capabilities (as spec’d) | Accelerations up to 16 g 
Jerk up to 38.5 g/s for a duration of 200 ms or less. |

*GPS Tracking Receiver*  
*Atlas V GPS Tracking Unit*
GPS Tracking Receiver
38501 Series

Environments:
Operating Temperature: -35°C to +71°C
Shock: 580 g’s from 1400-10,000 Hz
Random Vibration: 36.8 grms from 20-2000 Hz
Sinusoidal Vibration: Various profiles tested up to 16 g’s
EMI/EMC: RCC 324-01

Optional Features:
- SAASM or HDMA Receiver
- Enhanced PVT Rate Processing Available
- RS-422/485 or MIL-STD-1553 Avionics Interface
- GlobalStar, TDRSS or other Satcom Interface
- Serial or RF Modulated Telemetry Outputs
- On-board or Remote Power Switching
- Encryption Available
- Integration into complete Autonomous Flight Termination System (AFTS)