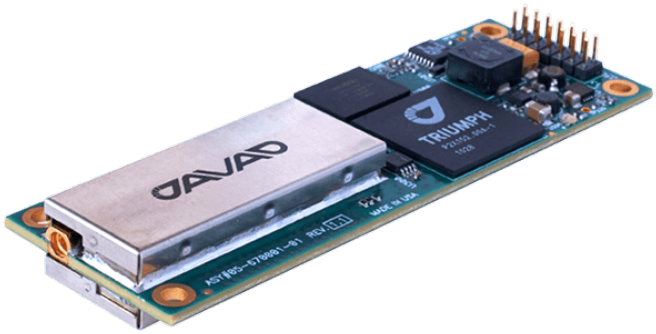
TRH-G2P

OEM GNSS Board



Key Features

- Advanced Multipath Mitigation
- Fast Acquisition Channels
- 216 Channels
- Up to 100Hz Output
- RAIM
- 256 MB Memory
- 1PPS
- High Speed Serial Port

TRH-G2P is a compact L1 GNSS board for robust positioning in a compact footprint. Based on JAVAD's proprietary ASIC technology, TRH-G2P allows quick integration for applications needing L1 GNSS for reliable and economical PVT in a small size.

TRH-G2P Specifications

Tracking	Total Channels	216	
	GPS	L1 C/A, L1C	
	Galileo	E1	
	BeiDou	B1, B1C	
	QZSS	L1C C/A, L1C	
	SBAS	L1	
Performance		Horizontal (m)	Vertical (m)
	Autonomous (Stand alone)	1.000	1.500
	DGPS	0.250	0.500
	RTK	0.008 + 1 ppm	0.015 + 1 ppm
	Static / Fast Static	0.003 + 0.1 ppm	0.004 + 0.4 ppm
Time to First Fix	Cold Start	< 35 s	
	Warm Start	< 5 s	
	Reacquisition	< 1 s	
Output Rate	Position	up to 100 Hz	
	Measurements	up to 100 Hz	
Wired I/O	Main Connector	Header, 2 x 7 pos, 0.0787” pitch	
	GNSS Antenna	1 x MMCX, +5 VDC Ports (0.12A max)	
	Serial	1 x UART up to 460.8 kbps	
	1PPS	1 x 1PPS output synchronized to GPS or UTC	
Storage	Internal Memory	256 MB	
Power	Input Voltage	+4.5 to +40 VDC	
	Power Consumption	1 W	
Physical	Dimensions	84 mm x 29 mm x 11 mm	
	Weight	14 g	
Environmental	Operating Temperature	-40°C to +80°C	
	Storage Temperature	-40°C to +85°C	
	Shock	MIL-STD-810G Method 516.7 Shock Procedure I (Functional) MIL-STD-810G Method 516.7 Shock Procedure V (Crash Hazard) ISO-9022-31-06 Shock, Severity 5	
	Vibration	MIL-STD-810G Method 514.7 Category 24 Minimum Integrity Vibration MIL-STD-810G Method 514.7 Category 24 Helicopter Vibration EC 60068-2-6 Sine Vibration	

Refer to the user manual for full specifications.
GNSS performance is dependent on signal quality, satellite geometry, ionospheric and tropospheric conditions, baseline length, multipath effects and RF interference.
Specifications may be changed without notice.