

OEM Boards

OEM GNSS



OEM GNSS Antennas



OEM Radios



Contact us:

+1 (408) 770-1770

[sales@javad.com](mailto:sales@javad.com)

[www.javad.com](http://www.javad.com)



## COMPLETE OEM SOLUTIONS

OEM boards for positioning, navigation,  
timing and communication

Aerospace

Monitoring

UAV

Autonomous Vehicles



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# OEM Boards

## Description

## Signals

## Input/output



### TR-2S

874 Channel GNSS Receiver in a tiny package. Ideal for use where minimum size and weight are needed.

55 x40 x 11 mm

- GPS L1/L1C/P1/P2/L2C/L5
- Galileo E1/E5A/E5B/ AltBoc/E6
- GLONASS L1/P1/P2/L2C/L3
- BeiDou B1/B1C/B2/B5A/B5B/B3
- QZSS L1/L1C/L2C/L5/SAIF/LEX
- SBAS L1/L5
- IRNSS L5/S
- L-Band

- RS232 / RS422 ports
- USB to RS232 FTDI converter
- USB 2.0
- CAN interface

- Event Marker input
- 1 PPS
- 3 external LED drivers
- 2 x GPIO ports



### TR-3S

874 channel GNSS board with 1PPS, CAN, event marker & frequency I/O

66 x 57 x 11 mm

- GPS L1/L1C/P1/P2/L2C/L5
- Galileo E1/E5A/E5B/ AltBoc/E6
- GLONASS L1/P1/P2/L2C/L3
- BeiDou B1/B1C/B2/B5A/B5B/B3
- QZSS L1/L1C/L2C/L5/SAIF/LEX
- SBAS L1/L5
- IRNSS L5/S
- L-Band

- RS232 / RS422 ports
- USB 2.0
- CAN 2.0
- IRIG timecode output
- 1 PPS

- Event Marker input
- MinPad interface
- 4 external LED drivers
- ON/OFF control
- 4 x GPIO ports



### TRE-DUO-IMU

Dual Antenna 874 channel with MEMS IMU for position, heading and attitude.

100 x 80 x 14 mm

- GPS L1/L1C/P1/P2/L2C/L5
- Galileo E1/E5A/E5B/ AltBoc/E6
- GLONASS L1/P1/P2/L2C/L3
- BeiDou B1/B1C/B2/B5A/B5B/B3
- QZSS L1/L1C/L2C/L5/SAIF/LEX
- SBAS L1/L5
- IRNSS L5/S
- L-Band

- RS232 / RS422 ports
- USB 2.0
- Full-Duplex Ethernet
- CAN 2.0 A/B
- IRIG timecode output
- 1 PPS

- Event Marker
- MinPad interface
- 4 external LED drivers
- ON/OFF control
- 4 x GPIO ports



### TRH-G2P

216 channel L1 GNSS board with up to 100 Hz update rate.

84 x 29 x 11 mm

- GPS L1
- Galileo E1
- BeiDou B1
- QZSS L1/L1C/L2C/L5/SAIF/LEX

- High speed serial port
- 1 PPS
- RTCM SC104 ver. 2.x and 3.x input/output
- CMR/CMR+ input/output
- NMEA 0183 ver. 2.x and 3.0 output



### GrAnt G5T OEM

Versatile high performance OEM GNSS Antenna.

94 x 94 x 17 mm

- GPS L1/L2/L2C/L5
- Galileo E1/E2/E5ab/E6
- GLONASS L1/L2/L3
- BeiDou B1/B2/B3
- QZSS L1/L1C/L2C/L5/SAIF/LEX
- WAAS L1/L5, EGNOS, MSAS, GAGAN,

- Frequency: 1551-1614, 1164-1300 MHz
- Power Input 3.0 - 15.0 VDC
- Power Consumption 0.68 W max.
- LNA Gain 32±2 dB



### LMR400 OEM Radio

DSP based UHF OEM Radio Modem with multiple modulations and high data rates.

81 x 46 x 12 mm

- 406-470 MHz
- GMSK, 4FSK, DBPSK, DQPSK, D8PSK, or D16QAM Modulation
- Channel Spacing: 25/20/12.5/6.25 kHz

- Licensed and unlicensed
- Up to 12.8 km range
- Data Speed over the air 38400 bps at 25 kHz 19200 bps at 12.5 kHz

- Output Power 30 mW to 1 W
- Forward Error Correction (FEC)
- Serial interface with RTS/CTS
- Serial data 9600 to 115200 bps