



TRIUMPH-2

The revolution in size, function and GPS scalability! The TRIUMPH-2 brings rugged, scalable, affordable, best-in-class GNSS performance to every application.

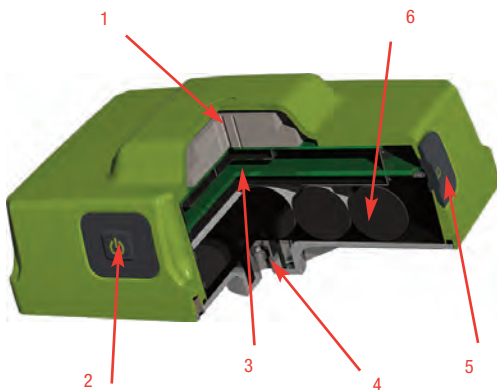
TRIUMPH-2 is based on our TRIUMPH Technology implemented in our TRIUMPH Chip. We offer very powerful GIS field mapping receiver with up to 100 Hz RTK, 216 channels of dual frequency GPS and GLONASS in a small attractive, sturdy, and watertight box.

Using its internal Bluetooth and WiFi connection the receiver can access local GNSS Reference Station Network. In addition to post-processed DGPS capabilities, the TRIUMPH-2 utilizes external correction services for real-time DGPS mapping and navigation applications.

TRIUMPH-2

Main Features*

- GPS L1/L2
- GLONASS L1/L2
- SBAS L1
- Positioning using Kalman Filter SBAS DGPS
- RTK Rate up to 100 Hz
- Data Recording up to 2GB
- RAIM
- USB
- Multi-Base Code Differential Rover
- Advanced Multipath Reduction
- Internal GNSS Antenna
- Bluetooth® and WiFi Interface
- Internal Bluetooth/WiFi Antenna
- Internal Rechargeable Li-Ion Battery



1. GNSS Antenna
2. On/Off button
3. GNSS Receiver, power board with Bluetooth, WiFi, and on-board Memory
4. 1/4-20" Mounting Thread
5. Record button
6. Rechargeable Li-Ion battery pack

Description

Total 216 channels: all-in-view (GPS L1/L2, GLONASS L1/L2, SBAS L1) integrated receiver

Tracking Specification

Signals tracked

GPS C/A, P1, P2, L2C (L+M)
GLONASS C/A, L2C, P1, P2
SBAS L1

Performance Specifications

Autonomous

<2 m

Static, Fast Static Accuracy

Horizontal: 0.3 cm + 0.5 ppm * base_line_length
Vertical: 0.35 cm + 0.4 ppm * base_line_length

Kinematic Accuracy

Horizontal: 1 cm + 1 ppm * base_line_length
Vertical: 1.5 cm + 1 ppm * base_line_length

RTK (OTF) Accuracy

Horizontal: 1 cm + 1 ppm * base_line_length
Vertical: 1.5 cm + 1 ppm * base_line_length

DGPS Accuracy

< 0.25 m post processing; < 0.5 m real-time

Cold Start

<35 seconds

Warm Start

<5 seconds

Reacquisition

<1 second

Power Specification

Battery

Internal Li-Ion battery (7.2 V, 8.85 Ah) with internal charger

Operation Time

Up to 25 hours

Input Voltage

+10 to +16 volts

GNSS Antenna Specifications

GNSS Antenna

Internal
NGS calibrated

Antenna Type

Microstrip (Zero Centered)

Ground Plane

Antenna on a flat ground plane

I/O

Communication Ports

Built-in USB to RS232 FTDI converter. 12Mbps USB 2.0 Full-Speed;
Wi-Fi (IEEE 802.11b/g);
Bluetooth V2.0+EDR Class 2 supporting SPP Slave Profile

External Power port

1 port

Memory & Recording

Internal Memory

Up to 2 GB of onboard non-removable memory for data storage

Raw Data Recording

Up to 100 times per second (100Hz)

Real Time Data

Input/Output

JPS, RTCM SC104 v. 2.x and 3.x, CMR

Output

NMEA 0183 v. 2.x and 3.0, BINEX

Status Indicator

Six LEDs, two function keys (MinPad)

Environmental Specifications

Enclosure

Metal base, plastic cover; IP67

Operating Temperature

-40° C to +60° C **

Storage Temperature

-45° C to +85° C **

Humidity

100% condensing

Dimensions

3.34 x 2.40 x 5.20 inches (85 x 61 x 132 mm)

Weight

1.23 lbs (0.56 kg)

* For the full list of standard and optional features see www.javad.com

** The operating temperature range of Li-Ion batteries is -30 ° C to +55°
The storage temperature of Li-Ion batteries is -20 ° C to +45°

Specifications are subject to change without notice



JAVAD GNSS
www.javad.com

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GlobalPOS
1800 636 627
sales@globalpos.com.au
www.globalpos.com.au