



TRIUMPH-NT

Revolutionary, compact, 216-channel GNSS Receiver and breakthrough, wide-screen, high-resolution handheld controller - TRIUMPH-NT is a great solution for the applications where the external GNSS antenna is needed. With the ability to process GPS, Galileo, GLONASS, QZSS, and COMPASS signals as well as SBAS, the TRIUMPH-NT receivers work with optimum signal available creating the most reliable results, saving your time and money. TRIUMPH-NT is very useful in the most of high accuracy applications, such as reference stations and Continuously Operating Reference Stations (CORS), machine navigation and control in road construction, precise agriculture, other land, aerial, and marine applications.

The receiver is equipped with external anrenna connector, three connectors for mounting on tripods, monopods, poles and machines. Because of user friendly interface and revolutionary new design TRIUMPH-NT is without a rival in the industry market.

TRIUMPH-NT

GNSS Receiver

Total 216 channels: all-in-view

GPS L1/L2/L2C/L5, Galileo E1/E5A/E5B, AltBOC, GLONASS L1/L2/L3, COMPASS L1/E5B,

QZSS SBAS

Signals Tracked L1/L2 C/A and P Code & Carrier

Autonomous <2 m

Static, Fast Static Accuracy

Horizontal: 0.3 cm + 0.5 ppm * base_line_length

Vertical: 0.5 cm + 0.5 ppm * base_line_length Horizontal: 1 cm + 1 ppm * base_line_length

Kinematic Accuracy Vertical: 1.5 cm + 1.5 ppm * base_line_length

RTK (OTF) Accuracy

Horizontal: 1 cm + 1 ppm * base_line_length

Vertical: 1.5 cm + 1.5 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

Internal Memory Up to 2048MB of onboard non-removable memory for data

storage

Raw Data Recording Up to 100 times per second (100Hz)

Data Type Code and Carrier from GPS L1/L2/L2C/L5, Galileo E1/E5A, GLONASS L1/L2/L3

Real time data outputs RTCM SC104 versions 2.x and 3.x Input/Output

ASCII Output NMEA 0183 versions 2.x and 3.0 Output

Output Data Code and Carrier

Controller

Drooppor	OMAP3530
Processor	000000

600MHz; 512 MB RAM and 512MB NAND Flash

Operating System Microsoft Windows CE 6.0

Memory 512 MB

SD card slot High Capacity microSD Card (microSDHC) up to

32GB can be used; user accessible, fully sealed Active viewing area: 4.3" diagonal (109 mm). High

Display visibility TFT active matrix; WVGA, 800 x 480 pixts

Touchscreen Sealed resistive touchscreen, aingerprint-resistant

oleophobic coating

Four-way directional Navigation button

Standard key functions include:

Home - main screen FN -action button

Buttons -/+ - Cancel (Zoom -)/Accept (Zoom +)

Enter (Ok) button - activates enter function

Five user programmable buttons

On/Off button

Enunciators Three LEDs: battery charging status, battery status,

sleep mode

Voice recorder integrated

Audio Output integrated

Environmental

Enclosure	Molded magnesium alloy and plastic, IP55
Color	Black
Operating Temperature*	-35° C to +75° C
Storage Temperature**	-40° C to +85° C
Humidity	100% condensing
Dimensions	W:178 mm x H:109 mm x D:178 mm
Weight	1700 g

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

Power Management

Battery	Intelligent, rechargeable, lightweight Lilon battery pack, 63.0 Wh (nom.). Battery easily changed in field without tools Charging via power adapter
Operation Time	Operates no less than 9 hours on one charge
External Power Input	10 to 30 V power input connector for charging or direct power input
Charging	Power management notifies user when battery needs charging and protects battery from overcharging

Charges in 3 to 5 hours

Radio

GSM/GPRS/EDGE Module	Internal GSM/GPRS/EDGE quad-band module, GPRS/EDGE Class 10
SIM card slots	Two SIM cards can be used; user accessible, fully sealed

1/0

Communication Ports	Wi-Fi (IEEE 802.11b/g) Bluetooth V2.0+EDR Class 2 supporting SPP Slave and Master Profiles Full-duplex 10BASE-T/100BASE-TX Ethernet port High Speed USB 2.0 On-The-Go port High Speed USB 2.0 Device port
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Other I/O Signals 1 PPS synchronized Event Marker

Specifications are subject to change without notice



JAVAD GNSS
www.javad.com
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