



**JANAK**

Inside Technology of JAVAD

# TRIUMPH-3NR

GNSS Network Rover



## Key Features

- GNSS & MEMS IMU
- Compact size
- Lightweight
- 25-hour battery life
- Bluetooth, Wi-Fi, USB
- LED status

TRIUMPH-3NR is a small and light GNSS Network Rover with an integrated MEMS IMU designed for a full day of field work. Paired with JAVAD Mobile Tools for data collection, TRIUMPH-3NR easily connects to Real Time Networks for GNSS RTK corrections with IMU tilt compensation. With 25 hours run time on a single charge, work all day without a battery swap or recharge.

# TRIUMPH-3NR Specifications



<b>Number of Channels</b>	874	
<b>GNSS Constellations</b>	GPS	L1 C/A, L1C (P+D), P1, P2, L2C (L+M), L5 (I+Q)
	GLONASS	L1 C/A, P1, P2, L2C, L3 (I+Q)
	Galileo	E1 (B+C), CBOC, E5A (I+Q), E5B (I+Q), AltBoc
	BeiDou	B1, B1C (P+D), TMBOC, B2B(I+Q) B2, B2A(I+Q), AltBoc
	QZSS	L1 C/A, L1C (P+D), L1S, L1Sb, L2C (L+M), L5 (I+Q), L5S
	SBAS	L1, L5
	NavIC	L5
	L-Band	1525-1560 Mhz
<b>Position Accuracy</b>	Autonomous	<2 m
	DGPS	< 0.5 m
	RTK	Horizontal: 0.008 m + 1 ppm; Vertical: 0.015 m + 1 ppm
	Tilt-Compensated RTK	RTK + 5 mm + 0.5 mm / ° tilt, up to 30°
	Static / Fast Static	Horizontal: 0.003 m + 0.5 ppm; Vertical: 0.005 m + 0.4 ppm
<b>Time for First Fix</b>	Cold Start	< 35 s
	Warm Start	< 5 s
	Reacquisition	< 1 s
<b>Antenna</b>	GNSS Antenna	Internal
	Type	Microstrip (Zero Centered)
	Ground Plane	Flat
<b>Memory &amp; Recording</b>	Internal Memory	32 GB
	Data Recording	Up to 100 Hz
<b>Status/Interface</b>	LED Indication	Battery Status / External Power, Bluetooth, Wi-Fi, Satellites, Position Mode, Recording Status
	Buttons	Power On/Off, Recording On/Off
<b>I/O</b>	USB	Host / Device, USB 2.0, micro B
	Wi-Fi	2.4 & 5 GHz, 802.11 ac/a/b/g/n
	Bluetooth	v 5.1, Class 2
	Power Input	3.5 mm jack
<b>Power</b>	Battery	Internal Rechargeable Li-Ion (63.7 Wh)
	Battery Charger	Internal
	Operation Time	25 hours
	External Power Input	10 - 30 VDC
<b>Physical &amp; Environmental</b>	Material	Plastic Cover, Metal Base
	Operating Temperature	-40° C to +60° C (-40° F to +140° F)
	Storage Temperature	-45° C to +85° C (-49° F to +185° F)
	Humidity	100% Condensing
	Ingress Protection	IP68
	Dimensions	132 x 85 x 61 mm (5.20 x 3.34 x 2.40 in)
	Weight	0.63 kg (1.39 lbs)

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.