



Repeatit TRACKER

Wireless Tracking System (WTS) designed to extend wireless connectivity on land or at sea.

The Repeatit Tracker is a Wireless Tracking System (WTS) that extends wireless connectivity to moving objects on land or sea. With an in-built Repeatit Trinity radio, the Tracker automatically aligns its antenna to reach the fastest & strongest connection while in transit.

Extending wireless broadband over ultra-long distances, the Repeatit Tracker serves new ship to shore applications for ferry operators, oil & gas companies and more.

The Repeatit Tracker has already been field-proven back-hauling data and communications from one of the UK's busiest ferry journeys.

Designed and manufactured in Stockholm, the Tracker is IP66 rated and built with a fine Swedish finish, able to survive harsh conditions at sea.



Why the Repeatit Tracker?

Resilient connectivity over land or sea

- up to 700mbps throughput at ultra-long range

Ruggedized build quality

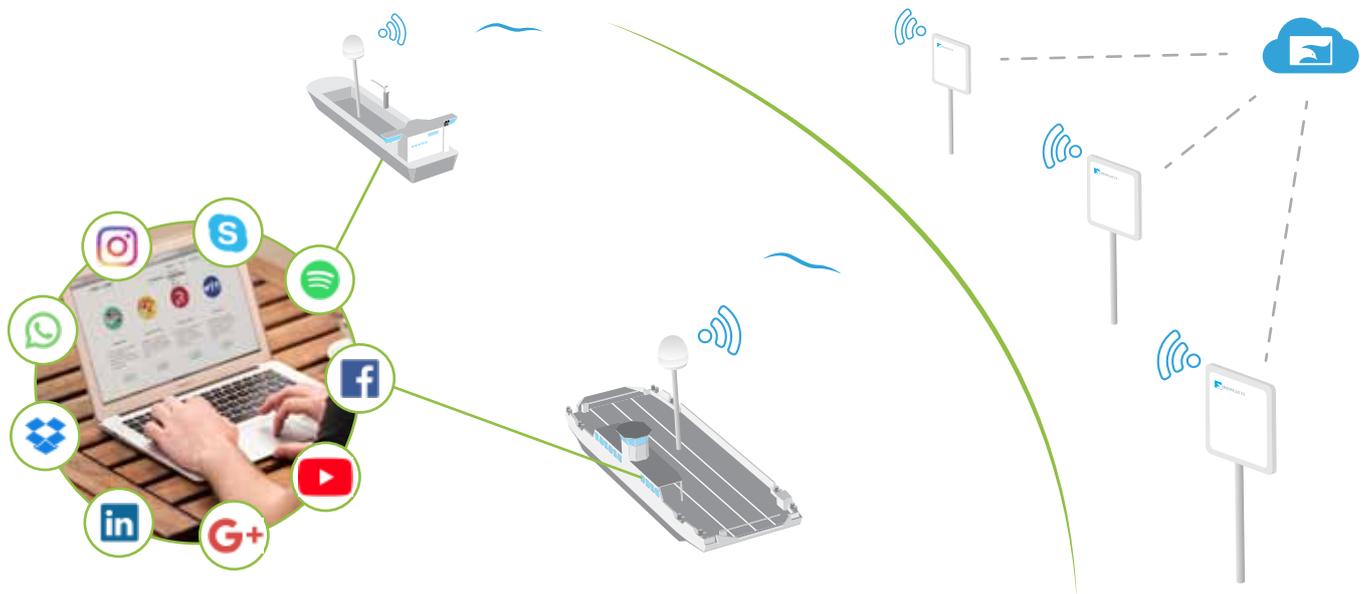
- IP66 rated

Auto-antenna alignment

- constant positioning to find the best connection

Repeatit Cloud ready

- configure, update & monitor your Tracker from anywhere



Markets & Applications

The Repeatit Tracker series takes wireless broadband into new markets, serving multiple applications on land or at sea.

Maritime & Shipping

The Repeatit Tracker serves a variety of maritime applications. Guests and crew members can now be connected whether on a ferry crossing, container ship or a yacht.

The Repeatit Tracker is field proven providing WiFi backhaul for holidaymakers travelling via ferry on The Solent, a stretch of water spanning 20 miles in-between Portsmouth and the Isle of Wight. The Tracker on board auto-aligns to maintain a strong wireless connection to the Repeatit unit on the shore.

Oil & Gas

The Tracker can also be used to connect an oil rig to a "floating hotel" or nearby ship. The Tracker is commonly used to connect an oil rig to a supporting ship, provide a ferry with a data connection, connect a fast moving boat to a main vessel or connect a land-based vehicle back to a static control base.

Onshore

Many onshore applications are enabled by the Repeatit Tracker including wireless broadband networks for mining, disaster recovery, public safety and more.



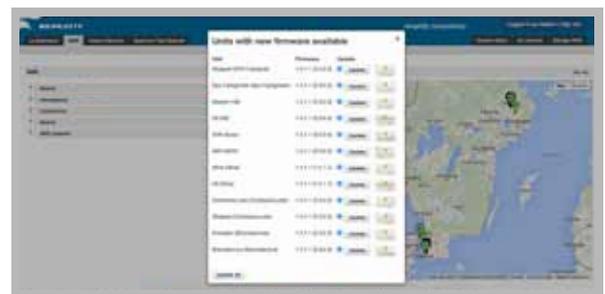
The Repeatit Cloud Ecosystem

The Repeatit Cloud ecosystem is a truly remarkable union of high performance wireless hardware with next generation management making networks simple to deploy, effortless to manage, and economical to maintain.

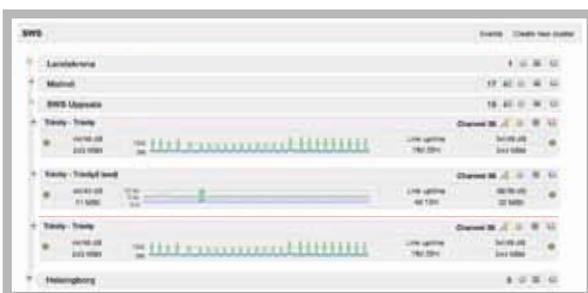
Continually evolving, the Repeatit Cloud ecosystem enables full network visibility with one-click firmware updates, network alerts, usage reports, and a Google Maps network topology.



The Repeatit Cloud ecosystem, available for free, provides a detailed snapshot of multiple networks



Upgrade Tracker to the latest firmware with one click and take advantage of Repeatit's latest features



Drill down into individual link performance to troubleshoot and see specific network usage



Configure and change Tracker settings remotely from the cloud without visiting a site

Repeatit Tracker Product Options



Tracker	Trinity-NT823	Trinity-NT823S
Pan	520°, 20°/s	520°, 20°/s
Tilt	±30°, 20°/s	±30°, 20°/s
Targeting Stabilizer	9 dimension sensing	9 dimension sensing
Antenna Heading	Dual GPS, ±0.3°	Single GPS, ±4°
Motor Axles	Vertical & Horizontal	Vertical & Horizontal
Radio		
Frequency Bands	4.9–6.0 GHz (restricted by country of operation)	4.9–6.0 GHz (restricted by country of operation)
Channel widths supported	20/40/80 MHz	20/40/80 MHz
PHY rate	867 Mbps	867 Mbps
Data throughput	Up to 700 Mbps	Up to 700 Mbps
Latency	1-4ms (1ms typical)	1-4ms (1ms typical)
Modulation and coding	OFDM - BPSK/QPSK/16QAM/64QAM/256QAM	OFDM - BPSK/QPSK/16QAM/64QAM/256QAM
Max output power	(Two chains) 30 dBm	(Two chains) 30 dBm
Sensitivity (BPSK modulation)	-93dBm @20MHz -90dBm @40MHz -87dBm @80MHz	-93dBm @20MHz -90dBm @40MHz -87dBm @80MHz
Security	AES-128 and TKIP encryption, MAC filtering	AES-128 and TKIP encryption, MAC filtering
DFS support	Yes	Yes
QoS	Four configurable classes	Four configurable classes
NoiseRobust feature	Supported	Supported
Link Auto-Tuning	Auto power and auto-channel	Auto power and auto-channel
Inbuilt Antenna		
Gain	24 ± 1 dBi	24 ± 1 dBi
3 dB-Beam-Width, H-Plane, typ.	7 degrees	7 degrees
3 dB-Beam-Width, E-Plane, typ.	7 degrees	7 degrees
Polarization	Dual Polarization	Dual Polarization
F/B Ratio	ETSI, TS3, TS4, TS5	ETSI, TS3, TS4, TS5
Cross Polarization, max.	-25 dB	-25 dB
Port to Port Isolation	-30 dB	-30 dB
Ethernet Interfaces and power		
Number of electrical GbE ports	1	1
Unit powering	Repeatit Specific PoE 230V/110V	Repeatit Specific PoE 230V/110V
Ethernet port protection	IEC 61000-4-2, IEC 61000-4-4, IEC 61000-4-5	IEC 61000-4-2, IEC 61000-4-4, IEC 61000-4-5
Management VLAN	Supported	Supported
Management		
Tracker Management	Web interface	Web interface
Management system	Repeatit Cloud Network	Repeatit Cloud Network
SNMP	SNMPv2	SNMPv2
WiFi Configuration	Yes	Yes
Environment		
IP rating	IP66	IP66
Operating Temperature	-30°C to +65° C	-30°C to +65° C
Weight per unit	15 kg	15 kg
Mounting Brackets		
Pole Mounting	Accessory	Accessory
Ordering Numbers		
Tracker	804-82325	804-82320
Pole Mounting Bracket	804-80001	804-80001

For more information including pricing and availability, visit our www.repeatit.se or contact info@repeatit.se.