ANYTIME ANYWHERE
READY TO DEPLOY

TB7300 TAIT TRANSPORTABLE REPEATER

**TAIT TOUGH.
COMPACT.
EASY TO DEPLOY.**

tait
communications

KEEPING YOU SAFE AND ON-MISSION

Unleash your team's potential with fit-for-purpose, critical communications solutions from Tait Communications.

For more than 50 years, Tait Communications has been designing, delivering and supporting critical communications networks for public safety, transportation and utility customers around the world.

Tait Communications helps you stay safe and on mission when the heat is on. From comprehensive radio networks with advanced data capabilities to support and managed services, you can trust Tait. Built with Kiwi ingenuity in Christchurch, New Zealand, we put your safety at the top of our agenda day in, day out.

We believe we can make the world a safer, better and more efficient place through our commitment to open standards, interoperability and better safety outcomes.

Tait solutions are customizable, versatile, flexible and built for every challenge. We uphold the principles of our founder, Sir Angus Tait:

" IF IT CAN SAVE A LIFE, MAKE IT TOUGH ENOUGH TO SURVIVE ANYTHING.

TB7300 TRANSPORTABLE REPEATER
STAY CONNECTED WHEREVER YOU ARE. EVERY TIME.

From natural disasters to crime scenes, firegrounds, and tactical operations, the Tait TB7300 Transportable Repeater gives you rapid, reliable communications wherever safety and security are on the line. Deploy it in minutes to extend your coverage or create a dedicated on-scene network.

The Tait TB7300 is a versatile multi-mode platform that supports Analog conventional, DMR and P25 Phase 1. In DMR mode, it delivers 6.25kHz equivalent channel efficiency, ensuring excellent spectrum utilization while remaining fully compliant with DMR Tier 2 and DMR Tier 3 standards.

PORTABLE POWER FOR CRITICAL COMMUNICATIONS

EASY, RAPID DEPLOYMENT

The TB7300 is designed for easy, rapid deployment, operating as a single conventional RF channel or as a trunked site with both control and traffic channels. For greater capacity, additional transportable units can be connected. It can also function as a trunked or linked conventional base station, enabling quick expansion of a private network.

MAXIMUM CONNECTIVITY

Flexible IP connectivity allows seamless linking, with the ability to transfer both voice and data across a packet-switched infrastructure using standard IP protocols. With built-in P25/DMR VoIP support, Quality of Service (QoS) assignments ensure optimal routing of voice and signaling traffic. Remote software downloads can be performed with no disruption to operations, keeping your system secure and up to date.

PROVEN INTEROPERABILITY

Designed and tested to DMR Tier 2 Conventional, Tier 3 Trunking, and P25 open standards, ensuring full interoperability and giving customers the freedom to choose their preferred vendors and equipment. The TB7300 delivers ultra-narrowband 6.25 kHz equivalent channel efficiency in DMR Tier 2 mode, utilizing 1-slot TDMA to support both voice and data services

OPTIONS AND ACCESSORIES

› Schurter waterproof AC Mains socket to make up an external AC Mains cable Supplied with the unit (must be wired by a registered electrician)

› External DC Input Cable with Red and Black clamps (clips)

› Removable 12V SLA battery (fitted inside)

TRANSPORTABLE

Designed in a rugged, waterproof Pelican case, the TB7300 is a compact base station that is easy to transport and deploy. It offers selectable output power from 2W to the maximum transit power 25W/30W, depending on the frequency band.

EXTENDED BATTERY LIFE

The default power configuration supports 11-15V DC and includes an internal battery with built-in charging capability, while an optional external battery pack can be added for extended operation. For greater convenience, a duplexer is fully integrated into the Pelican case, minimizing setup time and equipment needs.

INTEGRATED SOLUTION

The TB7300 seamlessly integrates with the TB9300 (DMR only) and TB9400 base stations, supporting analog, DMR, and P25 Phase 1. It's also a key part of the Tait DMR Express and Access solutions, working with the TN9300 Node Controller to power efficient DMR trunking networks.

SMART, SECURE REMOTE MANAGEMENT

Take control of your network from anywhere with built-in HTTPS web server and SNMP v3 support. Monitor and report critical base station or repeater alarms in real time and use inbuilt diagnostics to quickly confirm performance or identify faults remotely. Enhanced security features—including password protection, access levels, and multiple user accounts—ensure safe operation. System logs provide a full audit trail, while support for up to 4,000 channels allows a single configuration to be deployed seamlessly across multiple sites.

TB7300 TRANSPORTABLE REPEATER
KEY FEATURES

› Multi-mode platform supporting Analog Conventional, DMR Conventional and Trunking (TDMA) and P25 Conventional and Trunking (Phase 1 FDMA)

› Simple change of mode through the web interface

› Ultra-narrowband 6.25kHz equivalent technology for DMR modes (2 x TDMA channels in one 12.5kHz channel)

› Adherence to the DMR and P25 standards

› Easy and rapid deployment of single repeater operation

› Tait DMR Access and Express solution compatible

› DMR fallback into single site operation

› 12.5kHz analog repeater operation offers single site repeat

› Efficient system infrastructure scalability based on IP network connectivity

› Extensive range of remote management and monitoring capabilities with a security focus

› Built-in spectrum analyzer provides on-site diagnostics

› Design inside a rugged waterproof Pelican case

› AC/DC power supply inputs

› Internal SLA battery for rapid field deployment

› Options and accessories for better operational efficiency

TECHNICAL SPECIFICATIONS

FREQUENCY BANDS

Frequency	Range
VHF	136–174MHz
UHF	400–470MHz
800MHz	870MHz

GENERAL

Physical specifications - Pelican case 1550	
Dimensions (HxWxD)	440 x 530 x 215 mm
Weight	Less than 23kg (50.7lb), or less than 19kg without battery assembly (41.9lb)
Operating temperature	−22°F to +140°F (−30°C to +60°C) : with External DC and AC inputs, Battery Isolated
	−22°F to +122°F (−30°C to +50°C) : with Internal Battery connected
Battery specification	
Internal battery	12V Panasonic 15Ah/12Ah SLA battery with built in charging capability (the charging works when AC supply is connected)
	Recommend maximum temperature is 50°C.
	Whenever the temperature is above 50°C, then we recommend the unit is powered from an external DC source. For example, a car auxiliary power source.
Standalone battery life	When the power is set to 15W or the duty cycle is set to 5%, then the shift life may reach 8 hours.
Battery assembly weight	4.3 Kg (9.5lb)
Connectors	

Antenna N type female (both Rx and Tx connected to duplexor)

Network Ethernet Port

AC Mains input

External DC input

TRANSMITTER

Output Power	
VHF	Programmable 2–15W recommended (30W max)
UHF	Programmable 2–15W recommended (25W max)
Duty Cycle	

100%

Note:

The TB7300 Transportable Repeater is an example of Tait customization capability and client specific development. Tait can build this solution for you, or can design customized deployable solutions to meet your needs.

Contact your Tait representative for information about compliance, pricing and availability for your country.

WE GO BEYOND FOR A SAFER WORLD.

CONTACT YOUR LOCAL DEALER FOR MORE INFORMATION
TAITCOMMUNICATIONS.COM/CONTACT

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Quality
Management
ISO 9001

Environment
Management
ISO 14001:2015

Occupational
Health & Safety
Management
ISO 45001:2018

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