

P25 and Analog Transportable Repeater

Natural disasters, crime scenes,
firegrounds and tactical missions –
when safety or security is threatened,
reliable communications are vital.

Extend your current wide area coverage
or set up a dedicated communications
network at the scene.



KEY FEATURES

- **High performance and flexibility**
 - Proven P25 platform
 - Flexible power options
 - Intelligent, built-in Task Manager
 - Optional Internal Duplexer
- **Dual mode analog and digital operation**
 - Digital modes include P25 Conventional and P25 Trunking Phase 1
 - Enables interoperability with both analog and digital radio user groups
 - Enables easy migration from analog to digital communication
- **Tough, high-spec Pelican briefcase Model 1522**
 - IP67 dust and water proof (when closed)
 - MIL-STD 810 G (Fungal Growth)

TB9100 Transportable Repeater

SPECIFICATIONS



FEATURES AND BENEFITS

You can extend your current P25 wide area coverage or set up a dedicated communications network at the scene in minutes with the Tait P25 transportable base station/repeater. Robust, reliable and secure, the Tait P25 transportable delivers all the trusted features of the TB9100 base station, in a rugged, waterproof Pelican briefcase.

Proven P25 Platform

The Tait P25 transportable base station/repeater delivers the same interoperability, encryption and RF performance of the standard site-based product.

Dual mode interoperability

Digital P25 (Conventional or Trunking Phase 1), analog FM or dual mode (Conventional P25 and analog), means seamless operation between responders and teams with compatible portable and mobile radios.

The Tait P25 transportable base station/repeater has been tested under P25 CAP (Compliance Assessment Program) for interoperability and performance.

Flexible power options

Powered by external battery or mains (18-30V), smart AC/DC switching ensures continuity of service.

Intelligent, built-in Task Manager

The built-in Task Manager allows you to administer the unit remotely, including configuring alerts and monitoring RF performance.

Tough, high spec briefcase

Protected by a robust Pelican briefcase (Model 1522) rated IP67 dust and water proof when closed and MIL-STD 810 G (Fungal Growth). Together with a reinforced aluminum chassis, the units can withstand the physical demands of the mission-critical environment.

TB9100 Transportable Repeater

SPECIFICATIONS



GENERAL

	VHF	UHF	700/800MHz
Operational frequency+	148-174MHz	380-420MHz, 400-440MHz, 440-480MHz	762-870MHz
Channel/network capacity	10		
Channel spacing	12.5kHz, 20kHz, 25kHz		
Channel increment	0.125kHz		
Dimensions (HxWxD)	7.6in x 15.4in x 20.3in (192mm x 392mm x 515mm)		
Weight	<44lbs (<20kg)		
Operational temperature	-22°F to 140°F (-30°C to 60°C)		
Description	Modular repeater		
Power Consumption	12V Pa		
Standby	0.67A		
Tx @ 50W factory preset 15W	5A		
Supply Requirements			
Mains	88 to 264V		
DC	12V external supply negative earth		

RECEIVER

Analog sensitivity (12dB SINAD)	<0.25uV (-119.0dBm)
Digital sensitivity (TIA/EIA-102)	0.21uV (-120.5dBm) @ 5% BER
Spurious Response	≥100dB [ANSI/TIA]
Intermodulation	80dB [ETSI] 85dB [ANSI/TIA]

TRANSMITTER

Modulation Limiting	
12.5kHz channel	±2.5kHz
20kHz channel	±4kHz
25kHz	±5kHz
Transmitter Power Rating	Single 50W Repeater - factory set to 15W
FM Hum and Noise	
12.5kHz and 20kHz channels	-49.0dB (300Hz-3kHz [ANSI/TIA])
25kHz channel	-51.5dB (300Hz-3kHz [ANSI/TIA])

Note: This product can no longer be sold in Europe after December 2020.

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. All specifications shown are typical.

*Contact your local Tait representative for more information.

For further information please check with your nearest Tait office or authorized dealer.

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Tait International Limited facilities are certified for ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System) and ISO 45001:2018 (Occupational Health and Safety Management System) for aspects associated with the design, manufacture and distribution of radio communications and control equipment, systems and services. In addition, all our Regional Head Offices are certified to ISO 9001.

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