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T800 Series Base Station/Repeaters

The T800 Series base station/repeater is now only available in limited frequencies

The rugged and reliable T800 Series have been the stalwart of the Tait base station/repeater range since the 1980s. T800s are in use in over 80 countries, and have been installed in sites from Antarctica to the Gobi Desert.

However, T800 Series is now only available in the 66-88MHz frequency band. For the most part, the T800 has been replaced by the high performing, highly flexible [TB8100 Base Station/Repeater series](#).

Highlights:

- Proven RF performance
- Conventional and MPT 1327 trunked base station/repeaters
- Modular design for ease of installation and maintenance
- Easy to configure
- Multi-channel operation

T800 Series II



- 5U 19-inch rackframe
- Conventional and MPT 1327 trunked
- Collapsible kit assembly
- Mechanical self-alignment of modules
- All modules programmable from single front panel port

Overview

The T800 base station/repeater range is a comprehensively featured range of conventional and MPT 1327 trunked products, providing proven reliability and superior RF performance at an economical price.

The range includes the T800 Series II and T800SL base stations, built from high performance modules offering superior RF performance and rugged construction.



T800 Series II General Specifications

	Transmitters/Exciters/PAs	Receivers
Frequency Range	66-88MHz	66-88MHz
Rated Power	25W 50W Continuous Duty 100W Continuous Duty	
Channel Spacing	12.5kHz, 20kHz, 25kHz, 30kHz	12.5kHz, 20kHz, 25kHz, 30kHz
No. Of Channels	128 channels serial programmable	128 channels serial programmable
Power Supply Requirements	13.8V/240V AC or 110V AC	13.8V/240V AC or 110V AC
Current Consumption	Transmit 25W 5A, 50W 12A Standby 150mA	Standby 350mA
Operating Temperature	+60° C to -30° C	+60° C to -30° C
Audio Response	Flat pre-emphasis/de-emphasis (6dB/octave)	Flat pre-emphasis/de-emphasis (6dB/octave)
Band Spread	8MHz	2MHz (80MHz), 3MHz (VHF), 5MHz (UHF), 6MHz (800MHz)
FM Hum and Noise	55dB (25kHz) 50dB (12.5kHz)	55dB (25kHz) 50dB (12.5kHz)
Max Deviation	5kHz	
Conducted Spurious Emissions	+36dBm to 1GHz	
Audio Line Distortion	2% max	2% max
Audio Output	+10dB @600ohms	

Spurious Response Rejection	100dB	
Selectivity	Selectivity: 90dB	
Intermodulation	Intermodulation: 85dB	
Technical Compliance	Meets or exceeds: ETS300-086 (RF) ETS300-113 (data) ETS300-219 (tone calling) ETS300-279 (EMC) FCC & RSS requirements	Meets or exceeds: ETS300-086 (RF) ETS300-219 (tone calling) ETS300-279 (EMC) FCC & RSS requirements
Dimensions	25W: 183 x 60 x 340mm (7.2 x 2.4 x 13.4in) 50W: 183 x 120 x 340mm (7.2" x 4.7" x 13.4") 100W: 183 x 180 x 340mm (7.2" x 7.1" x 13.4")	183 x 60 x 340mm (7.2 x 2.4 x 13.4in)
Weight	25W: 2.1kg (4.6 lb) 50W: 5.2kg (11.5 lb) 100W: 5.6kg (12.3 lb)	2.1kg (4.6 lb)
Required Rackspace	60 x 120 x 180mm of 5U, 483mm rack 2.4 x 14.7 x 7.1in of 5U, 19in rack	60mm of 5U, 483mm rack 2.4in of 5U, 19in rack

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. For further information please check with your nearest Tait office or authorised dealer.



T800 Base Station/Repeaters - Options and Accessories

Standard Accessories

Microphone

This is required for test transmissions, and plugs into the user interface on the front panel. The microphone can be configured to transmit over-the-air or as line audio.

Modules/Options

Tone Remote Alarm

The Tone Remote Alarm module allows a despatcher to remotely control and monitor a T800 Series II base station.

This Tone Remote is fully compatible with both standard and customised communications consoles, and provides the following standard tone-remote functions as an integrated part of the T800 base station range: Tx Key, Rx monitor, repeater talk-through and F1-F8 channel selection.

This module can be configured to provide the following additional functionality:

- Alarm monitoring: Includes Tx forward power, reverse power, battery low and line failure. Alarm generation is selectable from common 5-tone sequences and/or a 'pip' tone down the line and/or over-the-air. Alarms can be cancelled remotely from the despatch console or locally via the front panel
- Simple site control: Allows remote operation of up to four 'wildcard' open-collector outputs which are typically used for controlling site access or tower lighting
- Voting tone generation: Provides for three types of voting tone sequences, which are compatible with industry standard formats.

Portable Repeater

The T800 Portable Repeater provides all the performance of a T800 Series II base station/repeater, packed into a compact 534mm x 300mm x

235mm cabinet complete with power source.

Where temporary communications are required, the high performance of the T800 portable repeater means you can be confident of reliable communications wherever it is placed.

This portable repeater offers:

- 25W power output (5W if battery powered)
- Full duplex operation
- Battery power source available.

Power Combiner

You can add a power combiner to a T800 Series II transmitter to achieve a 200W continuous duty cycle transmitter. In the unlikely event that one of the 100W power amplifiers fails, the output power will still be maintained at 50W. This protects the system from transmitter outage and consequential damages such as loss of revenue.

Changeover Module

A Changeover Module for use with the T800, provides automated failure protection using a standby transmitter and receiver. A front panel switch selects which set of equipment is active during normal operation, relegating the other to standby.

Power Supplies

See below for the range of power supplies available for T800 base stations.

Switchmode power supply for 25W base stations

- 13.8VDC output, 14.5 Amps, 110/240VAC input
- Installed onto a 5U vertical panel or a 2U vertical panel for Slimline base stations and repeaters

Switchmode power supply for 50/100W base stations

- 13.8VDC output, 30A, 110/240VAC input
- Installed onto a 5U vertical panel

Programming Accessories

Programming Kit

Contains service kit, CD and cable

Programming Cable

Programming cable available separately

Calibration Test Unit

To configure, run-up and test the T800 for operation

Coax Relay Assemblies

Coaxial/Antenna Relay with fittings and mounting brackets



T800 Series Base Station/Repeaters - Modules

T800 base station modules include transmitters, receivers, exciters (receiver/reciters), power supplies, power combiners and duplexers.

T800 Series II Receivers

This high performance modular base station receiver offers exceptional reliability and ruggedness in a modular, versatile design.

High Performance

This receiver features low noise circuitry with high intermodulation rejection, meaning less interference for the user. The T800 receiver is ideally suited for use on high-density sites. On sites with only small numbers of other users, multicoupler and filtering requirements are lower, saving costs for the user.

Rugged Die-Cast Construction

Integrated die-cast modules give exceptional ruggedness, while maintaining electrical integrity - meaning outstanding reliability and reduced maintenance costs.

Modular Design

Plug-in modules simplify on-site servicing. A replacement module is simply plugged in, allowing the original to be brought back to the workshop for servicing. Down time is minimised, and the units may then be serviced under ideal working conditions.

Versatility

Modular construction means systems can be assembled to individual requirements. Even complex or unusual systems can be realised within a compact size. This means you can mix and match modules within the 4U rack to your own system requirements.

Programmable Channels

Up to 128 channels can be programmed, for internal dipswitch selection or external control.

T800 Series II Transmitters and Exciters

The T800 Series II 25W transmitter offers high performance and rugged construction, with 128 channel capacity.

T800 Series II 50 and 100W transmitters consist of an exciter and power amplifier, and offer high performance and continuous duty in a modular design.

High Performance

Improved modulation performance and low noise design mean these transmitters are ideal for use on high-density sites. On sites with only a small number of other users, multicoupler and filtering requirements are lower, meaning cost savings for the user.

Continuous Duty (50 and 100W transmitters)

These transmitters are rated for continuous duty at full output power, so they can work harder without overheating. Full thermal protection prevents damage to the transmitters under extreme conditions.

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Location <http://www.taitworld.com/main/index.cfm/1,174,0,44,html>

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