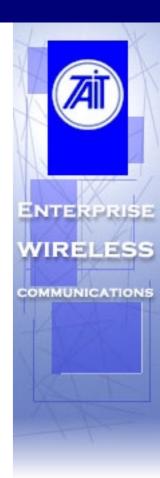


Fixed Equipment

T800 Series II





T800SL Basestations

www.tait.sk



T800 Series II



T800 series II is a comprehensively featured range of products, specially designed to fulfill the requirements of fixed radio equipment. High performance, inherent reliability and rugged construction make the T800 range ideal for professional applications.

The T800 series II family of modular basestations and ancillaires provide proven reliability, high performance and numerous system integration features.

Select

- T800 Series II 25W Transmitters
 - Modular Basestation Transmitter
- **T800 Series II Receiver**

High Performance Modular Basestation Receiver

■ T800 series II 50-100W Transmitters

Modular Basestation Exciter + Power Amplifier

- TA703-01 Basestation Changeover Module
- TA320 Power Combiner
- TA060, TA091 Slimline Products

(71KB) - pdf document only

T703 Basestation Changeover Module

(78KB) - pdf document only

Remote Monitoring

Fixed equipment remote monitoring products

Packaging Options

Product packaging, format options

T800 series II High Performance Modular Basestations



25W Transmitters Modular Basestation Transmitter

High Performance

Low noise design with a high level of integral shielding allows use on high density sites. On sites with only a small number of other users, multicoupler and filtering requirements are lower, with corresponding cost savings.

Thermal Protection

Full thermal protection prevents damage to the transmitters under exceptional conditions.

Rugged Die-Cast Construction

Integrated die-cast modules give exceptional ruggedness, while maintaining electrical integrity. Combined with extensive use of surface mount technology, the total package is one of outstanding reliability.

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 can be serviced under ideal workshop conditions.

Versatility

Modular construction allows assembly of systems to individual requirements. Even complex or unusual systems can be realised within a compact size.

Programmable Channels

Up to 128 channels can be programmed, for internal dipswitch or external control. A single configuration is usually enough to cover all bases in your system, simplifying set-up. Also, you can keep that plug-in replacement for rapid response to system faults.





Frequency Ranges

VHF

66-88 MHz, 136-174 MHz

<u>UHF</u>

400-520 MHz, 800-960 MHz

Rated Power

25W

5W (800-960 MHz)

Channels

128

Channel Spacing

12.5 kHz, 20 kHz, 25 kHz, 30 kHz

Dimensions

191 x 60 x 30mm, 7.5' x 2.4' x 13.4'

Multi-channel CTCSS de/encoder

128 channels

Paging board (Tone or POCSAG)

Slimline repeater package format

Power Supply

13.8V, 5A (2A, 800-960 MHz)

Rackspace

600mm of 5U, Industry std 483mm rack 2.4' of 5U Ind std 19' rack

Standard Features

Configurable audio processor

Versatile rack formats

Metering outputs

Hand microphone operation

Opto, dc or loop keying

Technical Compliance

Meets or exceeds FCC requirements and European ETS300-086

Weight

2.1 kg

4.6 lb



50 - 100W Transmitters

Modular Basestation Exciter + Power Amplifier



High Performance

Improved modulation performance and low noise design allows use on high density sites. On sites with only a small number of other users, multicoupler and filtering requirements are lower, with corresponding cost savings.

Continous Duty

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

Rugged Die-Cast Construction

Integrated die-cast modules give exceptional ruggedness, while maintaining electrical integrity. Combined with extensive use of surface mount technology, the total package is one of outstanding reliability.

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 can be serviced under ideal workshop conditions.

Versatility

Modular construction allows assembly of systems to individual requirements. Even complex or unusual systems can be realised within a compact size.

Programmable Channels

Up to 128 channels can be programmed, for internal dipswitch or external control. A single configuration is usually enough to cover all bases in your system, simplifying set-up. Also, you can keep that plug-in replacement for rapid response to system faults.

Frequency Ranges

<u>VHF</u>
66-88 MHz, 136-174 MHz
<u>UHF</u>
220-270 MHz, 330-380 MHz
400-530 MHz, 850-870 MHz

Channels

128

Channel Spacing

12.5 kHz, 20 kHz, 25 kHz, 30 kHz

Rated Power

All bands - 50W continuous duty 220-270/330-380/400-530 MHz 100W continuous duty 850-870 MHz - 70W continuous duty

Dimensions

191 x 60 x 30mm, 7.5' x 2.4' x 13.4'

Multi-channel CTCSS de/encoder 128 Channels

- · Paging board (Tone or POCSAG)
- Power Supply : 13.8V, 12A (23A for 100W)
- Rackspace: 600mm of 5U, Industry std 483mm rack, 2.4' of 5U Ind std 19' rack
- <u>Standard Features</u>: Configurable audio processor, Versatile rack formats, Voice and Data compatible, Metering outputs, Dual output stages for reliability, Hand microphone operation, Opto, dc or loop keying
- <u>Technical Compliance:</u> Meets or exceeds FCC requirements and European ETS300-086
- Weight: 2.1 kg, 4.6 lb



Receiver

High Performance Modular Basestation Receiver

High Performance

Design features low noise circuitry with high intermodulation rejection, giving a high level of immunity to interferance. The T800 Receiver is ideally suited for use on high density sites. On sites with only small numbers of other users, then multicoupler and filtering requirements are lower, with corresponding cost savings.

Rugged Die-Cast Construction

Integrated die-cast modules give exceptional ruggedness, while maintaining electrical integrity. Combined with extensive use of surface mount technology, the total package is one of outstanding reliability.





Modular Design

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

Versatility

Modular construction allows assembly of systems to individual requirements. Even complex or unusual systems can be realised within a compact size.

Programmable Channels

Up to 128 channels can be programmed, for internal dipswitch selection or external control. Also, you can keep that plug-in replacement for rapid response to system faults.

Špecifikácia

Frequency Ranges

<u>VHF</u>

66-88 MHz

136-174 MHz

<u>UHF</u>

220-285 MHz

330-380 MHz

400-530 MHz

800-960 MHz

Channels

128

Channel Spacing

12.5 kHz, 20 kHz, 25 kHz, 30 kHz

Dimensions

191 x 60 x 30mm 7.5' x 2.4' x 13.4'

Options

Multi-channel CTCSS de/encoder 128 channels

Slimline repeater package format

Power Supply

13.8 Vdc

Rackspace

600mm of 5U, Industry std 483mm rack 2.4' of 5U Ind std 19' rack

Standard Features

Configurable audio processor Received signal strength indicator Noise and carrier gated squelch Versatile rack formats Voice and data compatible

Technical Compliance

Meets or exceeds FCC requirements and European ETS300-086

Weight

2.1 kg 4.6 lb

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Packaging Option



T800 series II Packaging Options

T800 Series II Standard 19
5U T800 module packaging option

T800 Series II Slimline Format
2U T800 module packaging option

T800 series II Portable Repeater
T800 series II in a compact portable package





Packaging Option Standard 19

5U T800 module packaging option

Features

Collapsible kit assembly, Mechanical self-alignment of modules, Backplane printed circuit board allows rapid module interconnection while ensuring connection integrity, All modules programmable from single front panel port, Design facilitates maximum airflow for best system reliability





Specifications

Module Interconnection

Printed circuit board included

Module Programming

Front panel

Port

Modules Capacity

7

Rack Space 5U, Ind std 19' (483mm) rack

RF Specifications
As for T800 series

Speaker Panel Included (with speaker)



Packaging Option Slimline Format

2U T800 module packaging option

Features

Integrated speaker, Front mounted module programming port, Access to all T800 series II receiver and transmitter front panel controls and indicators, Optional power supply





Specifications

Front Panel Access

T800 series II receiver and transmitter front panel controls and indicators

Module Capacity

1 x T800 Receiver

1 x T800 Transmitter (25W)

Options

Power supply

Programming Port

Integrated

Rackspace

2U, Ind std 19' (483mm) rack

RF Specifications

As for T800 series II receiver and transmitter specifications

Speaker

Integrated



Packaging Option Portable Repeater

T800 series II in a compact portable package

Features

Compact

High performance of T800 series II basestation range, Integrated speaker with front panel module programming port





Specifications

Dimensions

435 x 300 x 235mm 17' x 12' x 9'

Portable

Rapid access frontand rear covers

Power Supply

Internal Lead Acid batteries

Programming Port

Module programming port integrated on front panel

Speaker

Integrated



TA320 - Power Combiner





Wide Frequency Range

The TA320 series covers the VHF and UHF frequency range from 62.5MHz to 550MHz.

Models

TA320-10: 62.5 - 125MHz TA320-11: 125 - 250MHz TA320-12: 225 - 400MHz TA320-13: 300 - 550MHz

Continuous Duty

As the T800 series II transmitters are rated for continuous duty at full output power, the addition of the TA320 Power Combiner means that a 200 Watt continuous duty cycle transmitter is realised.

Transmitter Fallback

A particular advantage of using the TA320 Power Combiner is that in the unlikely event that one of the 100 Watt power amplifiers fails, the output power will still be maintained at 50 Watts. This protects the system from transmitter outage and consequential damages such as loss of revenue.

Specifications

Dimensions

183 x 59.5 x 340mm 7.2' x 2.3' x 13.4'

Fallback

Operation continues even of one transmitter module fails

Power Output

Up to 200W continuous duty

Weight

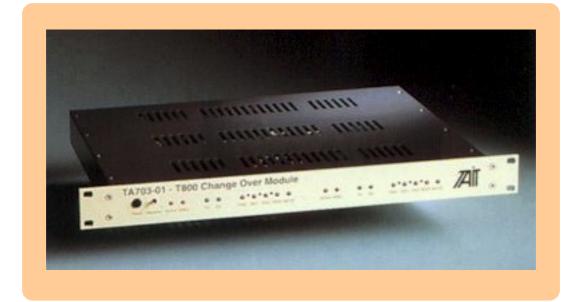
3.1 kg 6.8 lbs



TA703-01Basest Changeover Module



A fully duplicated base station system consists of a duplicate pair of transmitters receivers, power supplies and the TA703 changeover module. On the changeover module, a front panel switch selects which set of equipment is active during normal operation, relegating the other to stand-by. In the unlikely event of the active equipment developing a fault, the stand-by equipment is brought into operation, typically within one second. When the system performs a changeover, the source of the fault is indicated on the front of the unit and, with (optional). Selcall fitted, the base station can signal the faulty condition to a remote receiving site or mobile or handportable radio.



Features

19' (483mm) rack mounting

Compact size

Multiple parameter monitoring

User adjustable thresholds

Remote reporting (with the addition of Selcall)

System Operation



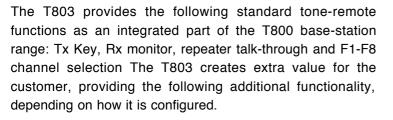
Remote Monitoring T803 Tone Remote Alarm Module

TEOO,

The T803-00-0000 allows a dispatcher to control and monitor a T800 Series II base-station over atwo or four-wire voice-grade line.

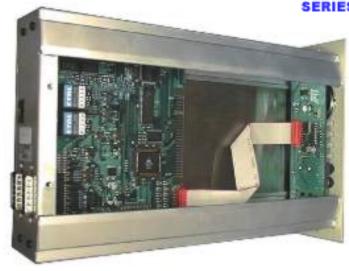
The T803 provides a range of industry-standard tone sets, including **Motorola Guard-Tone**"! and **GE Secur-It**"! formats.

The T803 is thus fully compatible with both standard and customised communications consoles.



Alarm monitoring.

ncludes 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 canceled remotely from the dispatch 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.

Benefits

DSP-based Operation

No adjusting of potentiometers No frequency-drift over time

Consistent and reliable tone detection and filtering Deep rejection to air of the low level guard tone (LLGT)

Flexibility - configuration via a companion software package (PGM800win ver 3.0) allows easy configuration for operation with standard consoles or enhanced customised operation.

Plug & Play - The module requires no messy rack wiring or expensive technician time. Simply plug the T803 into the T800-27-000x base station rack and configure via PGM800Win

Saves Rack Space - Integration of the speaker, programming jack and microphone socket means that the T803 module does not use up an extra module slot in the T800-27-000x rack

Extra Value-added

Line-fail detection initiates repeater talk-through and alarm action

- · Momentary channel monitor after function tones
- · Alarms or alarm pip-tone can be canceled remotely
- · Duplex operation as a standard feature



T800 SL Basestations



T800SL Base Station

The new T800 Slim Line Base Station offers the high performance of Tait T800 RF Modules at an economical price. Dependable in the busiest or most remote sites, the T800SL Base Station range redefines the price-performance benchmark.







T800SL Base Station

The new T800 Slim Line Base Station offers the high performance of Tait T800 RF Modules at an economical price. Dependable in the busiest or most remote sites, the T800SL Base Station range redefines the price-performance benchmark.



The new T800SL range of base stations provides high-end base station performance at a low-end price. Using proven T800 modules as an RF platform, professional 25W base-station performance is obtainable at similar prices to that of two mobiles in a box.

The T800SL product can be configured as a conventional repeater, a line connected (tone remote controlled) base station or used with complementary Tait Electronics MPT1327 control equipment 1 to configure a very cost-effective trunked radio network.

Occupying only 2U in a 19' rack, the T800SL Base Station facilitates quick and easy interfacing to other infrastructure, via a well-integrated and robust pcb backplane design. This approach, based on years of industry experience, provides system flexibility via easily accessible jumper links, connectors and dip-switches on the rear of the unit.

Benefits

Value Proposition

Professional RF performance at unprecedented price

Quick Installation

Well-integrated design minimises technician time on rack configuration

Product Breadth

66-88MHz, 136-174MHz, 400-520MHz, 800-960MHz (5W)

Easy to Configure

Jumpers, dip switches and snap connectors means no messy wiring

Rack Occupancy

2U 19' rack mount conserves valuable rack space

Rugged Reliability

Proven T800 RF platform

Operational Features

Easy Channel Select

Select any one of 128 pre-programmed channels via DIP switches on the rear of the base station

Personality setup

Plug in a simple dongle for repeater operation (to loop audio and key line), and remove it for line operation or equipment testing.

Radio Programming

Programming is done via PGM800Win, which allows control of operational features such as Tx timers, CTCSS tones, etc

Third Party Products

Third party products like repeater tone panels or phone patches are easily interfaced via a separate 15-way D-connector. These can be powered off the base-station, via a 1A (resettable fuse) supply rail.



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