TA3633 Transportable Repeater SPECIFICATIONS



Tough transportable repeater easy to deploy in mission critical situations.

Whether you're dealing with natural disasters, crime scenes, firegrounds, or tactical missions when safety or security is threatened, this transportable repeater allows you to have a reliable communications system deployed rapidly.

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

The Tait TA3633 repeater is an Analog conventional repeater, it can also provide some DMR Tier 2 and P25 repeater operations in digital mode.

KEY FEATURES

- Supports Analog repeat
- DMR Tier 2 single slot or P25 Conventional operations
- Simple change of channel through the radio interface
- Ultra-narrowband 6.25kHz equivalent technology for DMR
 Tier 2 mode (1 x TDMA channel slot in one 12.5kHz channel
- Easy and rapid deployment of single repeater operation
- 12.5kHz analog repeater operation
- Design inside a rugged waterproof Pelican case
- 10-30V DC power supply input, supplied with AC/DC power supply
- Internal SLA battery for rapid field deployment
- Options and accessories for better operational efficiency
- Range of portable antenna mast kits (Soft PVC carry case or Hard PVC Tube kits)
- Extended life battery case (Dual Batteries)







TA3633 Transportable Repeater

SPECIFICATIONS



FEATURES AND BENEFITS

Delivering on operational needs

- Easy and rapid deployment of transportable repeater as a single conventional RF channel
- Easy to operate user interface allows operators to change channels using one user interface



- Panel meter gives user a quick indication of the state of the battery before use without the need to use additional test equipment
- Resettable circuit breaker allows users to simply reset the fuse if tripped



Developed for transportable operations

- Designed in a rugged Pelican case
- Compact base station easy to transport and deploy
- Output power selection from 1W to the maximum transmit power 4W/5W depending on the frequency band (measured before duplexer)
- Power supply per default configuration: 10-30V DC plus an internal battery with built in charging capability
- Duplexer integrated into the Pelican case
- Optional extra battery pack

Designed to support effective deployment

- When pre-configured, just plug in the repeater antenna on site to start operating
- Compatible with analog, DMR Tier 2 and P25 Conventional networks

DMR and P25 Conventional

- Designed and tested with the DMR Tier 2 Conventional standard to provide customers with choice of vendor and equipment
- 6.25kHz equivalent 1-slot TDMA for voice and data operation
- Designed to the P25 Conventional voice

Range of accessories

 Portable antenna mast kits Soft carry case



Hard PVC Pipe



- Dual battery case for when extended operation is needed



 Dual battery case can be connected to a solar panel to charge it when extra long life needed

TA3633 Transportable Repeater



SPECIFICATIONS

FREQUENCY BANDS

Frequency	Range	Tait Band	Configuration
VHF	148-174MHz	B1	Factory set to 5W*
UHF	380-470MHz	HK	Factory set to 4W*
UHF	450-520MHz	H7	Factory set to 4W*

^{*}The output power of the transportable unit is reduced due to the duplexer loss.

REGULATORY

DMR, Analog, P25

Australia/New Zealand AS/NZS4768)
Safety (EN60950)

GENERAL

Radio specifications

Frequency stability +/- 0.5 ppm Channels 1,000

Channell spacing 12.5kHz in Analog, 1 channel of TDMA 6.25kHz equivalent in DMR

Frequency increment/channel step VHF 2.5/3.125kHz (or multiples of), UHF 5/6.25kHz

Physical specifications Pelican case 1450 (available in Black, Orange, OD Green, Silver or Yellow)

Dimensions (HxWxD) 420 x 331 x 174 mm

Weight Less than 10kg (50.7lb), depending on the type of battery used

Operating temperature $22^{\circ}F$ to +140°F (30°C to +50°C)

Power specifications

Power Supply DC 10-30V (Supplied with AC/DC Mains supply charger (100-240V AC)

Battery specification

Internall battery 12V Panasonic 15Ah/12Ah SLA battery with built in charging capability (the charging works when external

DC supply is connected).

Recommend maximum temperature is 50C.

12V Lithium LiFePO4 batteries can also be used in the case reducing the weight

Standalone battery life When the power is set to max (5W VHF/ 4W UHF) and the duty cycle is 5/5/90, then the shift life may

reach 60 hours

Battery assembly weight 4.3 Kg (9.5lb) will be less is Lithium battery used

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

External DC inputi

Accessories External AC/DC charger

Supplied with the unit External DC Input Cable with Red and Black clamps (clips)

Removable 12V SLA battery (fitted inside)ii

Spares 219-03353-00: CBL Battery Eliminator with 15A Fuse & Switch & ACC plug

(Battery DC cable with car acc plug - cigarette lighter port)

TA2700-03: KIT Spares x2 Battery Pack Transpb TA2700

(Two spare batteries)

TA3633-03 Dual Battery Transportable case

 $(Case\ fitted\ with\ Two\ batteries\ and\ separate\ charging\ controller,\ can\ connect\ to\ a\ solar\ panel\ to\ charge$

atteries.

www.taitradio.com

Not supplied with the unit

TA3633 Transportable Repeater





TRANSMITTER

Modulation types 4FSK,FM, C4FM
Audio response +1/-3dB
FM hum and noise (Analog) -40dB
Conducted spurious emissions -36dBm

Output power

 VHF
 Programmable
 5W,3W,2W,1W

 UHF
 Programmable
 4W,2.5W,2W,1W

RECEIVER

Modulation types 4FSK,FM, C4FM

P25 (TIA102)

Sensitivity 0.22µV (-120 dBm) @5%BER

Intermodulation response attenuation 75dB
Adjacent channell rejection 60dB

DMR

Sensitivity ETS 300 113 @1%BER -119dBm (0.25μV) @1%BER

Sejectivity ETS 300 086 12.5kHz: 62 dB

Intermodulationl response 70dB ETS 300-113

Analog

-120dBm (0.22µV)
Sensitivity 12.5kHz: 52dB
Selectivity (EIA-603) 75dB (VHF & UHF)

TAIT NETWORK SOLUTIONS

Tait has taken every care in compiling this specification sheet, but we're always innovating and therefore changes to our models, designs, technical specification, visuals and other information included in this specification sheet could occur. For the most up-to-date information and for a copy of our terms and conditions please visit our website www.taitradio.com.

The words "Tait", "Tait Unified", "TeamPTT", the "Tait" logo and "Tait Unified" logo are trademarks of Tait International Limited

Tait International limited offices and 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. Tait Managed Services are certified for ISO 27001:2013 (Information Security Management System).

Authorized Partners		