TAIT

T800 //

T800 Series *II*

Conventional Equipment

Reference Guide

Index

T800 Series *II*

Conventional Equipment

Reference Guide

Introduction

T800 Conventional Equipment

This publication contains relevant reference information for Tait's T800 Conventional product range. It will be updated as equipment is modified or new features are introduced.

It is intended to show only standard options. There is provision to 'mix & match' up to seven modules in a rack to produce combinations for customised solutions.

Tait System Solutions are open-ended.

As well as information about the equipment there is also an order form and detailed instructions on how to fill in the order form.

If you cannot find a solution, Please contact RSD Custom Solutions.

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Document Control

The initial release of this guide will be a hard copy delivered to Customer Service Organisations and other relevant people within the Tait organisation.

In the interests of improving the performance, reliability or servicing of the equipment, Tait Electronics Limited reserve the right to update the equipment or this document or both without prior notice.

The Master copy will be available on the Tait Electronics Ltd Customer Service web site.

Changes will be notified to all document holders who will be responsible for updating these changes from the web site.

Guide and Purpose of Filling out Conventional T800 Equipment Questionnaire

The purpose of this questionnaire is to assist the staff of RSD to get as much information as possible from you at the start of your enquires or order request for equipment that is to be <u>SET-UP BY RSD.</u> The accurate completion of this form will speed up processing time and ensure delivery of the correct equipment.

PART 01. (WHAT IS REQUIRED)

This is to immediately identify the quantity and what sort of configuration or equipment is required.

PART 02. (FREQUENCY BAND REQUIRED

This is to indicate which frequency band the equipment is required to operate in. It also gives the equipment type required.(for Series I the last four digits are not needed). In some cases there will be a need for Transmitter and Receiver to be in different bands; this will not affect the Rackframe required.

ENSURE EQUIPMENT STATED IS TYPE APPROVED FOR COUNTRY OF USE.

PART 03. (DO YOU KNOW WHAT IS REQUIRED)

The completion of this section in full is not always essential but the more information you provide will assist the Technician in correctly configuring the Rackframe to your requirements.

SPEAKER PANELS ARE FITTED AS STANDARD WHERE APPROPIATE

In the Rackframe line for part number you may put the code for the configuration required, these codes can be found in the T800 Series II Conventional Equipment Reference Guide, Section 1. If you do not have an RSD code, you may enter either the high level T number, if known. These are also in the Reference Guide, Section 2, or enter "do not know" and leave the selection of Rackframe to RSD who will select the appropriate configured Rackframe to meet your requirements, based on the rest of the information provided in this section.

For the rest of the requirements you may tick the appropriate YES box for the module that you would like to be fitted into the Rackframe, remembering there is only sufficient room to fit 7 x 60mm modules. Doing this will help RSD ensure that if a Rackframe has been mentioned it can support your requirements. If no standard Rackframe exists that will fulfil your needs, then RSD will engineer a configuration to satisfy your requirements.

PART 04 (EQUIPMENT TYPE REQUIRED)

This is to indicate the preferred type of equipment you require, remembering that eventually all types will be Series II. Ensure type ordered are Type Approved for Country of use.

PART 05 (DO YOU KNOW THE FREQUENCIES)

This information can be helpful as sometimes the auxiliary equipment can be frequency dependant, ie; Duplexer/Splitters, etc..

PART 06 (AUXILLIARY EQUIPMENT)

The information provided in this section ensures that the auxiliary equipment asked for is appropriate for the frequency band that the rest of the equipment is to operate in.

PART 07 (ANCILLIARY EQUIPMENT)

This section is to advise RSD of the maintenance support equipment required.

PART 08 (BRIEF DESCRIPTION)

This section is to enable you to give RSD a quick operational requirement and provide sketches if deemed necessary on the information sheet provided.

PART 09 (ADDITIONAL COMMENTS)

This section is to allow you to provide any extra information you think RSD will require.

PART 10

This is to inform RSD of your required delivery DATE .

PART 11 (TRANSMITTER/EXCITER PARAMETERS)

This section is to allow you to inform RSD of operational parameters for the equipment.

By ticking the STANDARD box you are indicating that all parameters required are as stated in the Set-up procedure in the appropriate equipment manual, and the frequency/frequencies required are as stated in PART 05. If no frequencies are stated in Part 05 then the equipment is to be Set-up on TEST frequencies.

By ticking the CUSTOMISED box you are indicating special requirements are needed. You must then fill in all the required details in the boxes below to allow RSD to set-up the equipment to those specifications and options, and to supply any other information that may be required by RSD.

PART 12 (RECEIVER PARAMETERS)

Same as above.

CONVENTIONAL T800 EQUIPMENT

Customer Information: **Date:** _____

Customer / C.S.O	
From:	
Purchase Order Number:	
RSD Quote Reference:	
RSD Staff Responsible:	

This form has been devised to assist in clearly identifying the Product required, and its operational parameters if being BUILT and TESTED by RSD.

DO YOU REQUIRE RACKS and MODULES? ☐   **DO YOU REQUIRE MODULES ONLY?** ☐
(Please continue on this page)   (RSD to Set-up, Please go to PART 04)

PART 01.   WHAT IS REQUIRED?

Base Station ☐   **Portable** ☐   **Slimline** ☐   **To Operate as a Repeater   Yes** ☐   **No** ☐
TOTAL QUANTITY REQUIRED :- _____

PART 02.   FREQUENCY BAND REQUIRED ?

66- 88Mhz ☐	(T82n-xx-xxxx)	220-244Mhz ☐	(T86n-xx-xxxx)	440-480Mhz ☐	(T85n-xx-xxxx)
136-156Mhz ☐	T83n-xx-xxxx)	243-270Mhz ☐	(T86n-xx-xxxx)	480-520Mhz ☐	(T85n-xx-xxxx)
148-174Mhz ☐	(T83n-xx-xxxx)	330-380Mhz ☐	(T87n-xx-xxxx)	800-880Mhz ☐	(T88n-xx-xxxx)
174-225Mhz ☐	(T37n-xx)	400-440Mhz ☐	(T85n-xx-xxxx)	870-960Mhz ☐	(T88n-xx-xxxx)

ARE REQUIRED MODULES TYPE APPROVED, COUNTRY OF USE :- _____

PART 03.   DO YOU KNOW WHAT IS REQUIRED PER RACK?

Description	Option Required	Qty	Part Number
Rackframe			
Receiver			
Transmitter			
Exciter			
Power Amplifier	50 Watts		
	70 / 100 Watts		
Power Supply	AC for_____Volts		
	External 13.8V Supply		
	Battery		
Converter	12/12, 24/12, 48/12		
Circuit Breaker	10Amp, 20Amp or 30Amp		
Alarm Unit			
Monitor Unit			
Tone Remote			
Combiner 200W			
Hi Stability Osc			
Channel Panel	10 Channel / 100 Channel		
Cooling Fan	Single or Double		
Relay-50 W Max			
Duplexer	Tx/Rx Frequencies required		
Duplexer Cradle	(T800-42-0001)		
Blank Panel	(316-06615-00)		
Speaker Panel	Single/selectable		

Purchase Order Number:	

PART 04. **EQUIPMENT TYPE REQUIRED :-** **SERIES I** ☐ **SERIES II** ☐

PART 05. **DO YOU KNOW THE FREQUENCIES AT THIS TIME?**

No ☐ **To be advised** ☐ **Attached** ☐

Yes ☐

| Tx | _____ | **MHz** | **CTCSS** | _____ | **Hz** |
| Rx | _____ | **MHz** | **CTCSS** | _____ | **Hz** |

Channel Panel Eprom Info **To be advised** ☐ **Attached** ☐

PART 06. **AUXILLIARY EQUIPMENT :-**

Description	OPTION REQUIRED	Qty	Part Number
Automatic Changeover Unit	For Freq:-_____Mhz		
	Power Monitor Kit		
	Installation Kit		

PART 07. **ANCILLIARY EQUIPMENT :-**

Description	Qty	Part Number
Cabinet		
Microphone		
Programming Software		
Module Extender with 2 D Ranges(standard)		
Module Extender with 11 way D Range(QS)		
Service Manuals		

PART 08.
BRIEF DESCRIPTION : (Diagram / Information Sheet Attached?) **Yes** ☐ **No** ☐

PART 09.
ADDITIONAL COMMENTS :-

PART 10.

DATE REQUIRED_____

PART 11.

TRANSMITTER/EXCITER PARAMETERS :-   **STANDARD** ☐   **CUSTOMISED** ☐

(As Manual)   (Identify Requirements)

Channel Spacing :	
12.5 kHz	☐
20.0 kHz	☐
25.0 kHz	☐
Other_____ kHz	☐

Frequency Stability : (VHF)	2.5 ppm	☐
	1.5 ppm	☐
(UHF)	1.0 ppm	☐
External Reference		☐

Transmitter Power :	
25 Watts	☐
50 Watts	☐
(For 800MHz Max 70W) 70 Watts	☐
100 Watts	☐
Other_____ Watts	☐

Number of Channels :	
Single	☐
(Freq_____MHz)	
Multiple	☐
(Pattern Required)	

Line Level : _____dBm

C.T.C.S.S. :	
No	☐
Yes	☐
Single	☐
(Freq_____Hz)	
Multiple	☐
(Pattern Required)	

Tx Time Out :	
Disabled	☐
Enabled	☐
(Max Time 5 mins) Duration_____Mins	

Tx Tail Time :	
Disabled	☐
Enabled	☐
(Max Time 5 secs) Duration_____Secs	

Audio Response :	
Pre-emphasised	☐
Flat	☐

Special Modifications	
No	☐
Yes	☐
Refer to Part 08	☐

PART 12.

RECEIVER PARAMETERS :-   **STANDARD** ☐   **CUSTOMISED** ☐

(As Manual)   (Identify Requirements)

Channel Spacing :	
12.5 kHz	☐
20.0 kHz	☐
25.0 kHz	☐
Other_____ kHz	☐

Frequency Stability : (VHF)	2.5 ppm	☐
	1.5 ppm	☐
(UHF)	1.0 ppm	☐
External Reference		☐

Number of Channels :	
Single	☐
(Freq_____MHz)	
Multiple	☐
(Pattern Required)	

Line Level : _____dBm

Gating Operating Level : _____

C.T.C.S.S. :	
No	☐
Yes	☐
Single	☐
(Freq_____Hz)	
Multiple	☐
(Pattern Required)	

Audio Response :	
De-emphasised	☐
Flat	☐

R.S.S.I. : (UHF Equipment Only)	
Note:All other equipment	No ☐
has RSSI as standard	Yes ☐

Special Modifications	
No	☐
Yes	☐
Refer to Part 08	☐

SYSTEM BLOCK DIAGRAM (OPTIONAL)

T800S*II* Numbering System

Conventional Rack Systems ordered from RSD using the adjacent Numbering System will be configured as follows:

Rack Configuration

The Racks used in these configurations are as per Section 2 of this guide, which illustrates the factory default specifications.

Each Rack is fully wired and set-up for AC or DC power supply options.
(Refer to Section 3).

A Speaker / Programming Port Panel and all required Blank Panels and are fitted as standard to each rack as required.

If the System Type is code "B", a co-axial relay is fitted as standard. If any other code is used, then relays must be requested if required.
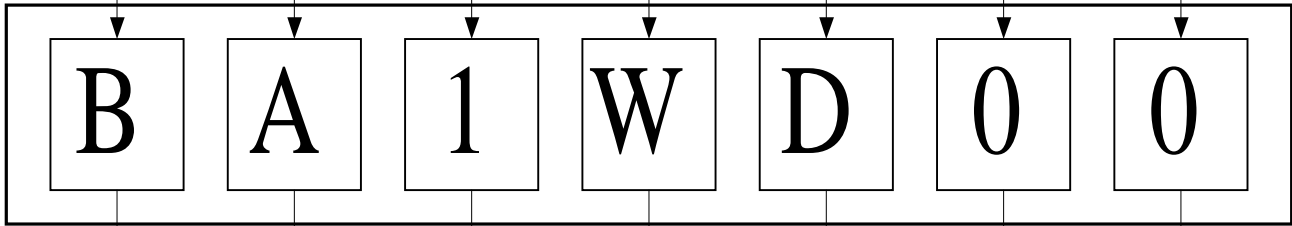
Module Configuration

All Rx and Ex/Tx modules are fitted with second D-ranges as Standard.
ie.(T8XX-XX-0200)

All technical information on this Rack configuration is available from RSD.

Order Number System

14/12/1999

System Type	Frequency Band	RF Output Power	Channel Spacing	Power Supply	Duplexer	Ancillary Options

B A 1 W D 0 0

B = Base Station   (T800-22-XXXX)
R = Repeater   (T800-22-XXXX)
S = Slimline   (T800-23-0000)
P = Portable   (T800-25-XXXX)
T = Tone Remote   (T800-27-XXXX)
D = Dual Base   (T800-22-001X)
Q = Quasi-Sync   (T800-24-XXXX)
H = HSO Rack   (T800-28-XXXX)
L = Liberty   (T800-56-XXXX)

A = 66 - 88 MHz   (T82x-xx)
B = 136 - 156 MHz   (T83x-1x)
C = 148 - 174 MHz   (T83x-2x)
D = 400 - 440 MHz   (T85x-1x)
E = 440 - 480 MHz   (T85x-2x)
F = 480 - 560 MHz   (T85x-3x)
G = 800 - 880 MHz   (T88x-1x)
H = 870 - 960 MHz   (T88x-2x)
I = 220 - 244 MHz   (T86x-1x)
J = 243 - 270 MHz   (T86x-2x)
K = 265 - 285 MHz   (T86x-3x)
L = 330 - 380 MHz   (T87x-2x)

1 = 25 Watts
2 = 50 Watts
3 = 90 or 100 Watts
4 = 5 Watts

N = 12.5 kHz
M = 20 kHz
W = 25 kHz
E = 50 kHz

A = Power Supply   (T807-10-0000)
                              (T808-10-0000)
B = Slimline Power Supply   (T807-23-0010)
D = DC External Power supply

0 = No Duplexer Fitted
1 = 50 Watt Duplexer Fitted
2 = Coaxial Relay

This item code is always set to (0) for Slimline configurations.

If Duplexer item code is set to (1), then Base/Repeater/Slimline Requirement sheet must be completed.

0 = No Ancillary Option
1 = Circuit Breaker Panel   (T800-17-00XX)
2 = Tx/Rx Metering & Monitor Unit (T818-01-0000)
3 = Multi-Channel Panel (100 CH) (TA087-01-0000)
4 = Multi-Channel Panel (10 CH)   (TA387-01)
5 = Alarm Module   (TA136-02-0000)

Example: BA1WD00

B = Base Station
A = 66 -88 MHz
1 = 25 Watts
W = 25 kHz
D = DC External Power supply Fitted
0 = No Duplexer Fitted
0 = No Ancillaries Fitted
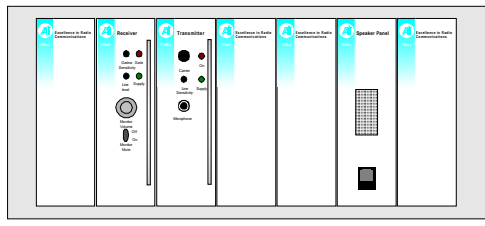
Equipment list

T825-10-0200
T826-10-0200
T800-22-0000

This set-up comes complete with all required Blank Panels and a Speaker/Programming Panel

Rack and Function Cross-Reference Chart

Relevant Module T number	Cross-Reference Section	Module Function	T800-22-0x00	T800-22-0x06	T800-22-0x10	T800-22-0x11	T800-22-0x12	T800-22-0x14	T800-22-0x15	T800-22-0x16	T800-22-0x17	T800-22-0x20	T800-22-0x21	T800-22-0x22	T800-22-0x23	T800-22-0x24	T800-23-0x00	T800-23-0x01	T800-24-0x00	T800-24-0x01	T800-24-0x02
		Single system	●	●	●							●	●	●	●	●	●	●	●		●
		Dual system						●	●	●	●									●	
		Receive only				●	●														
T8n6 -	8	25W Transmit	●	●	●			●	●		●	●	●		●	●	●	●	●		●
T8n7 - T8n7 -	8	50W Transmit	●	●	●					●		●		●	●	●			●	●	●
T8n7 - T8n7 -	8	100W Transmit	●		●														●		●
X800-9x-000y	Default Power	AC	●		●	●	●	●	●			●			●	●		●	●	●	●
X800-9x-000y	Options shown.	External 13.8V DC		●						●	●		●	●			●				
X800-9x-000y	Refer to Sections 2&3	Battery back-up			●	●	●								●	●			●	●	●
	7	Converter																			
	8	Circuit breaker											●	●							
	7	Optional Duplexer	●		●			●		●	●				●	●			●	●	
	7	Optional fan								●					●	●				●	
	7	Optional relay							●												
	7	Optional CH/PNL			●	●	●	●			●	●	●	●	●	●					
		Portable																			
	8	T803 Remote/Alarm																			
		Link		●																	
		Quasi Sync																	●	●	●
	8	Alarms (TA136)				●									●	●			●		
	8	Speaker	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●		●
	8	Monitor (T818)										●	●	●							
	8	Paging																			
		Fylde TSC Interface																			
		Slimline															●	●			

01/12/1999

Rack and Function Cross-Reference Chart

Module Function	T800-25-0000	T800-25-0001	T800-25-0002	T800-27-0x00	T800-27-0x01	T800-28-0x00	T800-29-0x00	T800-29-0x01	T800-29-0x02
Single system	●	●	●		●	●		●	
Dual system				●			●		●
Receive only									
25W Transmit	●	●	●	●	●	●	●	●	
50W Transmit			●		●	●		●	●
100W Transmit					●	●		●	
AC		●	●	●	●	●	●	●	
External 13.8V DC	●	●	●				●		●
Battery back-up	●	●			●	●			
Converter									
Circuit breaker									
Optional Duplexer					●			●	
Optional fan				●	●	●			
Optional relay				●					
Optional CH/PNL	●	●	●						
Portable	●	●	●						
T803 Remote/Alarm				●	●				
Link						●			
Quasi Sync									
Alarms (TA136)									
Speaker	●	●							
Monitor (T818)									
Paging						●			
Fylde TSC Interface							●	●	●
Slimline									

01/12/1999

T800 Series// Rack and Module Weights

	Weight (kg)	0.00

Rackframe
to house 2 modules	3.60
to house 3 modules	4.15
to house 4 modules	4.70
to house 5 modules	5.25
to house 6 modules	5.80
to house 7 modules	6.35

T8n5 Receiver	2.20
T8n6 Transmitter	2.05
T8n7 Exciter	2.05
50W Power Amplifier	3.20
100W Power Amplifier	3.55
T80n Power Supply	2.30
Circuit breaker	0.50
DC Converter Module	0.90
TA136 Alarm Unit	0.85
T818 Monitor	0.95
TA807 Channel Panel	0.35
TA320 Combiner	2.80
Duplexer	1.15
Duplexer Cradle	0.55
T803 Tone Remote / Alarm	1.55
T801-20 High Stability Oscillator	1.50

Portable Repeater Case
to house 3 modules (Standard)	6.00
to house 4 modules	6.15
2 Batteries (Standard)	5.60

01/12/1999

T800 Series *II*

Conventional Equipment

Reference Guide

Rack Configuration

T800-22-0x00

A standard single channel rack for repeater or base station use; up to 100 Watt output.

Operational Characteristics
- Single channel
- Up to 100W with option of Transmitter or Exciter / PA combination
- Speaker / Programming panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery

Configuration Options
- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0010 installation kit
- microphone
- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
  - Height - 222mm
  - Width -   482mm
  - Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
  - 25W -   11.25kg
  - 50W -   14.45kg
  - 100W - 14.80kg

NOTE: This product offers the versatility of fitting personality boards to provide customised solutions for specific requirements.
Refer to RSD for design and build of personality boards.

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

Receiver — Excellence in Radio Communications

Receiver
- Gating Sensitivity / Gate
- Line level / Supply
- Monitor Volume
- Off / On
- Monitor Mute

Exciter
- Carrier / On
- Line Sensitivity / Supply
- Microphone

Power Amplifier
- Supply
- Low forward power
- High reverse power
- Power

Excellence in Radio Communications

Speaker Panel

Power Supply
- Overload
- Standby
- On
- Power

FAN (OPTIONAL)

OPTIONAL TRANSMITTER · OPTIONAL BLANK · OPTIONAL DUPLEXER · OPTIONAL BLANK
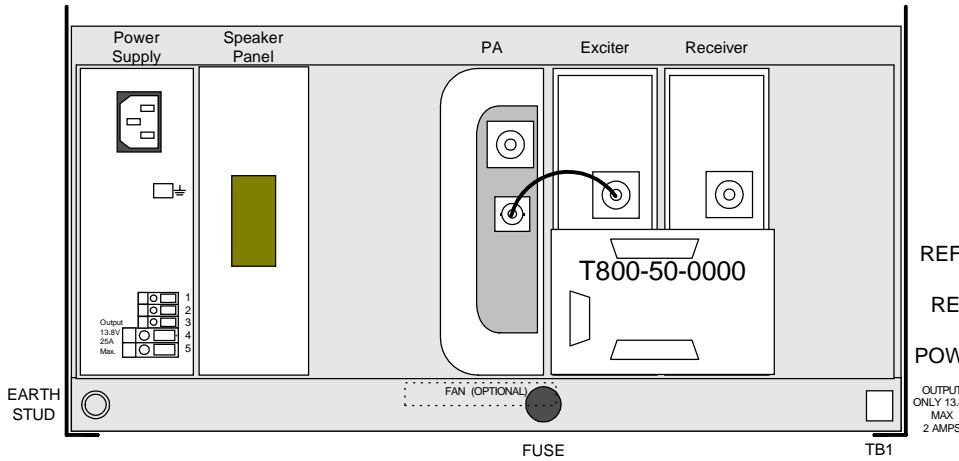
REAR VIEW

Power Supply · Speaker Panel · PA · Exciter · Receiver

Output 13.8V 25A Max.
1
2
3
4
5

T800-50-0000

EARTH STUD

FAN (OPTIONAL)

FUSE

TB1

OUTPUT ONLY 13.8V MAX 2 AMPS

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-22-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	1	SECTION 4
T800-45-0000	GUIDE PA 50W KIT	1	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-15-0000	SPEAKER / PROGRAM PANEL	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-40-0001	BLANKING BRACKET / FRONT PANEL	2	SECTION 8
T800-50-0000	BACKPLANE	1	SECTION 5
X800-90-0000	POWER RAIL (STANDARD)	1	SECTION 3

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Radio Communications
Christchurch
New Zealand

Version		Drawn	Checked	Date
5	Drawing name changed	AMM	ABB	26/11/99
4	Drawing No changed and Ref. added	AMM	ABB	24/8/99
3	Parts list added	AMM	ABB	8/3/99
2	Change of Title	AMM	ABB	14/12/98
1	Original	AMM	ABB	22/10/98

TITLE: RACK, SNGL<100W, (OPT BD

DRAWING: T800-22-0x00 RACKFRAME

T800-22-0x06

A 25 Watt single channel rack for repeater or link use.

Operational Characteristics

- Single channel
- Up to 25W Transmitter Output
- Speaker / Programming panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options

- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery

Configuration Options

- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0010 installation kit
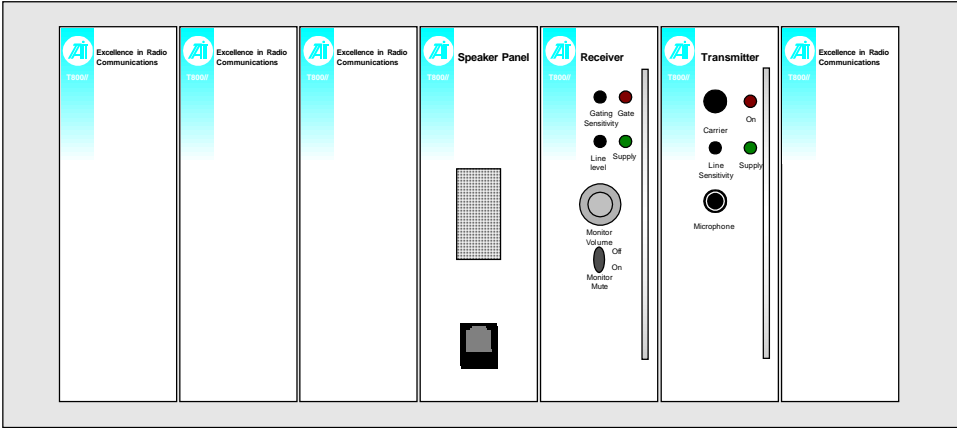- Microphone
- DC converter

Mechanical Characteristics

- 5 Rack Units x 19" rack to house up to 7 modules
- Size

        Height -   222mm
        Width -   482mm
        Depth - 322mm plus 50mm clearance space
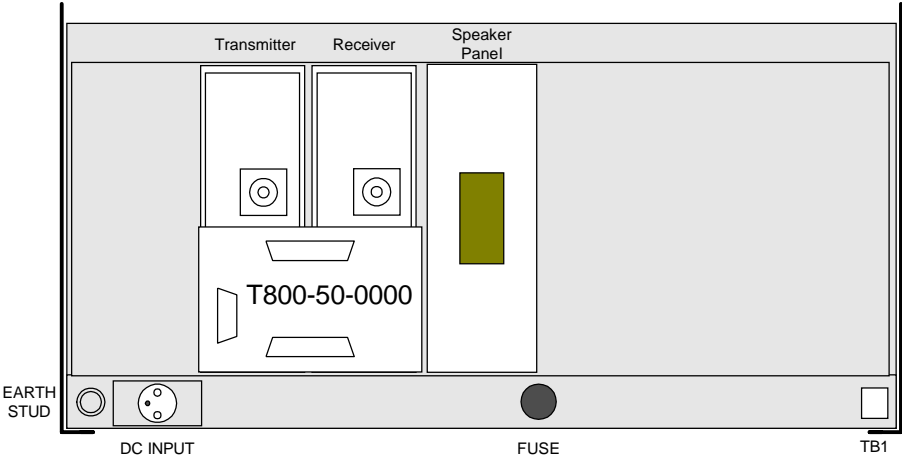- Weight – (rackframe with modules shown)
        7.85kg

NOTE: This product offers the versatility of fitting personality boards to provide customised solutions for specific requirements.
Refer to RSD for design and build of personality boards.

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

Excellence in Radio Communications

Excellence in Radio Communications

Excellence in Radio Communications

Speaker Panel

Receiver
- Gating Sensitivity
- Gate
- Line level
- Supply
- Monitor Volume
- Off
- On
- Monitor Mute

Transmitter
- Carrier
- On
- Line Sensitivity
- Supply
- Microphone

Excellence in Radio Communications

REAR VIEW

Transmitter   Receiver   Speaker Panel

T800-50-0000

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

EARTH STUD

DC INPUT

FUSE

OUTPUT
ONLY 13.8V
MAX
2 AMPS

TB1

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-22-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	1	SECTION 4
T800-15-0000	SPEAKER / PROGRAM PANEL	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-40-0001	BLANKING BRACKET / FRONT PANEL	2	SECTION 8
T800-50-0000	BACKPLANE	1	SECTION 5
X800-91-0000	POWER RAIL (STANDARD)	1	SECTION 3

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Christchurch
New Zealand

TITLE:
RACK, REPEATER/LINK END DC

2	Drawing No changes and Ref. added	AMM	ABB	24/8/99
1	Original	AMM	ABB	19/2/99
Version		**Drawn**	**Checked**	**Date**

DRAWING: T800-22-0x06

T800-22-0x10

A single channel repeater or base station rack based on the standard T800-22-0x00, with the option of fitting a Channel Panel.

Operational Characteristics
- Single channel
- Up to 100W with option of Transmitter or Exciter / PA combination
- Speaker / Programming panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery

Configuration Options
- Channel Panel
- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
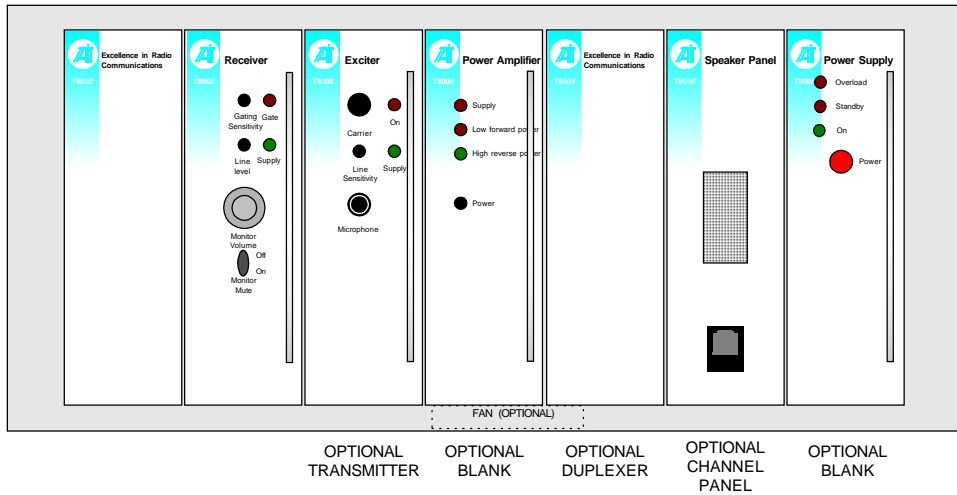- microphone
- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    - Height -   222mm
    - Width -   482mm
    - Length - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
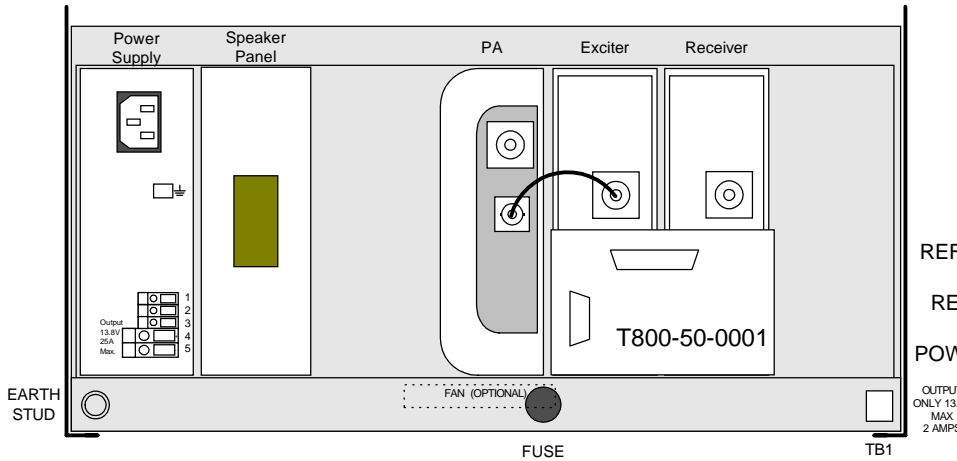   - 25W -   11.25kg
    - 50W -   14.45kg
    - 100W - 14.80kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

| Receiver | Exciter | Power Amplifier | Speaker Panel | Power Supply |

OPTIONAL
TRANSMITTER

OPTIONAL
BLANK

OPTIONAL
DUPLEXER

OPTIONAL
CHANNEL
PANEL

OPTIONAL
BLANK

FAN (OPTIONAL)

REAR VIEW

Power
Supply

Speaker
Panel

PA

Exciter

Receiver

T800-50-0001

EARTH
STUD

FAN (OPTIONAL)

FUSE

Output
13.8V
25A
Max.

OUTPUT
ONLY 13.8V
MAX
2 AMPS

TB1

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-22-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	1	SECTION 4
T800-45-0000	GUIDE PA 50W KIT	1	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-15-0000	SPEAKER / PROGRAM PANEL	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-40-0001	BLANKING BRACKET / FRONT PANEL	2	SECTION 8
T800-50-0001	BACKPLANE CH-PNL	1	SECTION 5
X800-90-0000	POWER RAIL (STANDARD)	1	SECTION 3

TAIT	5	Drawing name changed	AMM	ABB	26/11/99
	4	Drg No changed and Ref added	AMM	ABB	25/8/99
Radio Communications	3	Parts list added	AMM	ABB	8/3/99
Christchurch	2	Change of Title	AMM	ABB	14/12/98
New Zealand	1	Original	AMM	ABB	21/10/98
	Version		**Drawn**	**Checked**	**Date**

TITLE

RACK, SNGL<100W, (CH PNL

DRAWING: T800-22-0x10 RACKFRAME

T800-22-0x11

A Receiver only rack with alarm outputs, AC power supply and dual battery back-up connections.

Operational Characteristics
- Receive only - up to 4 receivers
- Speaker / Programming panel - with Receiver Speaker Select Switch
- Alarm Panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery

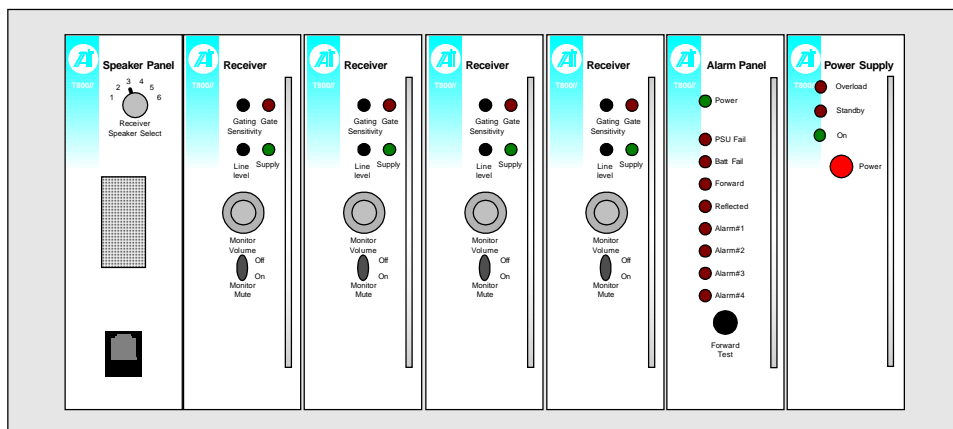**Configuration Options**
- Channel Panel
- Fans - single or double
- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
      Height -   222mm
      Width -   482mm
      Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
      17.75kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.
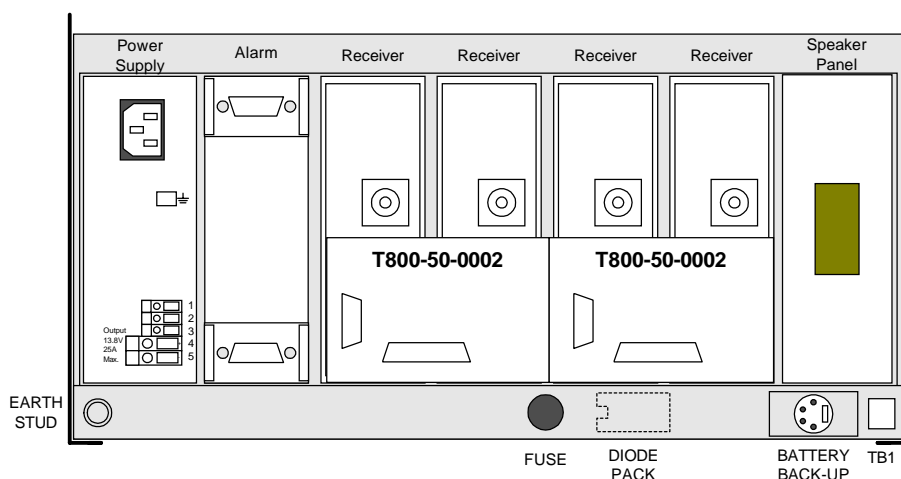
FRONT VIEW

OPTIONAL
CHANNEL
PANEL

OPTIONAL
or BLANK

REAR VIEW

T800-50-0002   T800-50-0002

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

EARTH
STUD

FUSE

DIODE
PACK

BATTERY
BACK-UP

TB1

OUTPUT
ONLY 13.8V
MAX
2 AMPS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-11-0004	RACK, FRAME ONLY, ASSEMBLED 2 BATT BACK-UP	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	2	SECTION 4
T800-43-0000	GUIDE KIT T1500/300 DOUBLE 'D'	1	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-15-0002	SPEAKER / PROGRAM PANEL WITH 6-WAY SWITCH	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-50-0002	BACKPLANE	2	SECTION 5
X800-93-0000	POWER RAIL (STANDARD)	1	SECTION 3

T A I T	4	drg No changed and Ref added	AMM	ABB	25/8/99
	4	Frame label removed	AMM	ABB	22/7/99
Radio Communications	3	Parts list added	AMM	ABB	8/3/99
Christchurch	2	Change of Title	AMM	ABB	14/12/98
New Zealand	1	Original	AMM	ABB	20/10/98
	Version		**Drawn**	**Checked**	**Date**

TITLE:

RACK, RX ONLY AC
(4RX + ALARM + SPK)

DRAWING: T800-22-0x11

T800-22-0x12

Receive only rack similar to T800-22-0x11; but with no alarm outputs.

Operational Characteristics

- Receive only - up to 4 receivers
- Speaker / Programming panel - with Receiver Speaker Select Switch
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options

- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery

Configuration Options
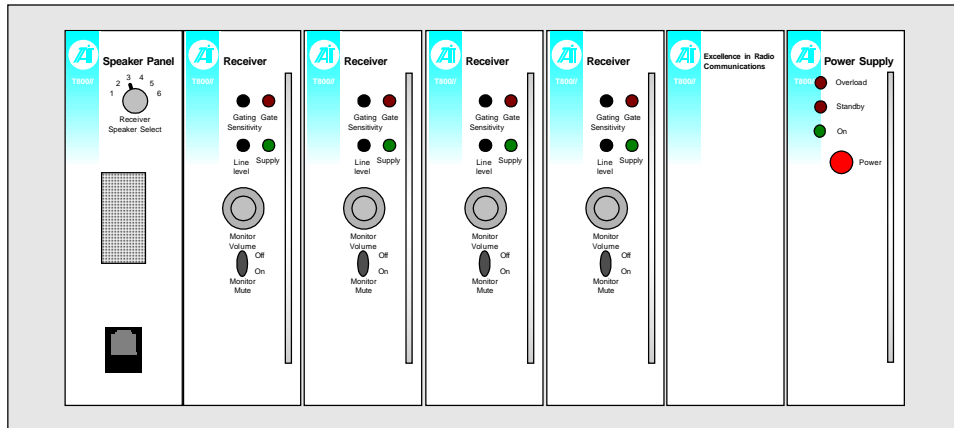
- Channel Panel
- Fans - single or double
- DC converter

Mechanical Characteristics

- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    Height -   222mm
    Width -   482mm
    Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
    16.35kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.
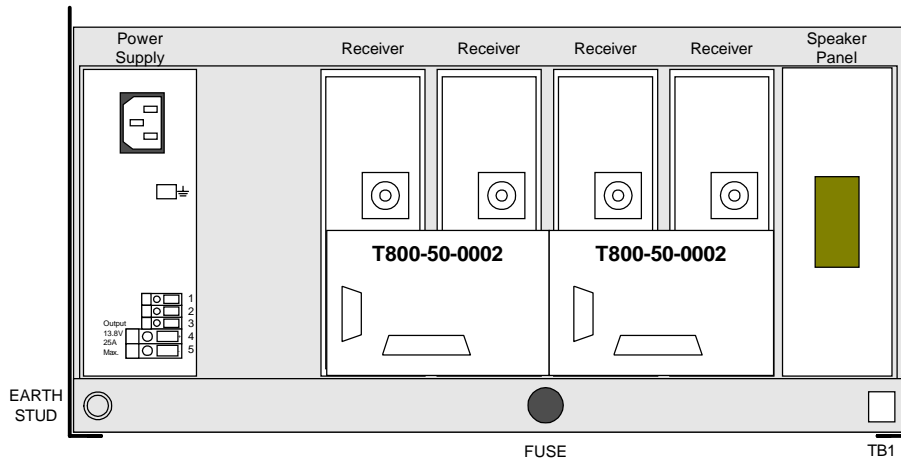
FRONT VIEW

OPTIONAL
CHANNEL
PANEL

OPTIONAL
or BLANK

REAR VIEW

T800-50-0002   T800-50-0002

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

EARTH
STUD

FUSE

TB1

OUTPUT
ONLY 13.8V
MAX
2 AMPS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	DESCRIPTION	QTY	REFERENCE
T800-22-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	2	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-40-0001	BLANKING BRACKET / FRONT PANEL	1	SECTION 8
T800-15-0002	SPEAKER / PROGRAM PANEL WITH 6-WAY SWITCH	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-50-0002	BACKPLANE	2	SECTION 5
X800-90-0000	POWER RAIL (STANDARD)	1	SECTION 3

T A I T

Radio Communications

Christchurch

New Zealand

Version		Drawn	Checked	Date
3	drg No changed and Ref added	AMM	ABB	25/8/99
3	Parts list added	AMM	ABB	8/3/99
2	Change of Title	AMM	ABB	14/12/98
1	Original	AMM	ABB	20/10/98

TITLE:

RACK, RX ONLY AC (4RX + SPK)

DRAWING: T800-22-0x12

T800-22-0x13

A dual 50 Watt channel rack, with AC power supply and DC battery back-up connections.

Operational Characteristics
- Dual channel
- 50W output
- Speaker / Programming panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only   Not Available (see T800-22-0x16)
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery   Not Available (see T800-22-0x16)
- x = 5   AC and External DC and Battery

Configuration Options
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
- microphone

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
     Height -   222mm
     Width -   482mm
     Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
     23.55kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

REAR VIEW

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

The rack configuration has been changed to reduce
the risk of overheating in some environments.
It is recommended that the optional fans are fitted.

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	DESCRIPTION	QTY	REFERENCE
T800-24-0004	RACK, FRAME ONLY, ASSEMBLED BATTERY BACK-UP	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	2	SECTION 4
T800-45-0000	GUIDE PA 50W KIT	2	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-50-0001	BACKPLANE	2	SECTION 5
X800-93-0002	POWER RAIL (STANDARD)	1	SECTION 3

T A I T

Radio Communications

Christchurch

New Zealand

Version		Drawn	Checked	Date
3	Drg name changed	AMM	ABB	29/11/99
2	Drg No change, ref added, PS,PA moved	AMM	ABB	25/8/99
1	Original	AMM	ABB	18/2/99

TITLE:
RACK, DUAL 2x50W

DRAWING: T800-22-0x13 RACKFRAME

T800-22-0x14

A dual 25 Watt channel rack, with AC power supply and DC battery back-up connections.

Operational Characteristics
- Dual channel
- 25W output
- Dual Speaker / Programming panel (switchable)
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only   Not Available (see T800-22-0x17)
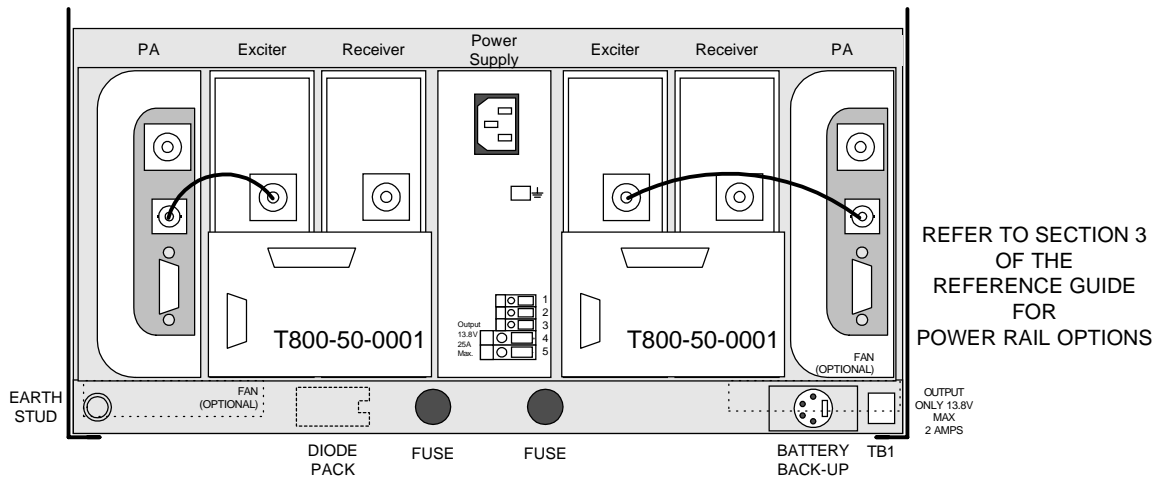- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery   Not Available (see T800-22-0x17)
- x = 5   AC and External DC and Battery

Configuration Options
- Channel Panel
- Individual Speaker / Programming panels
- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
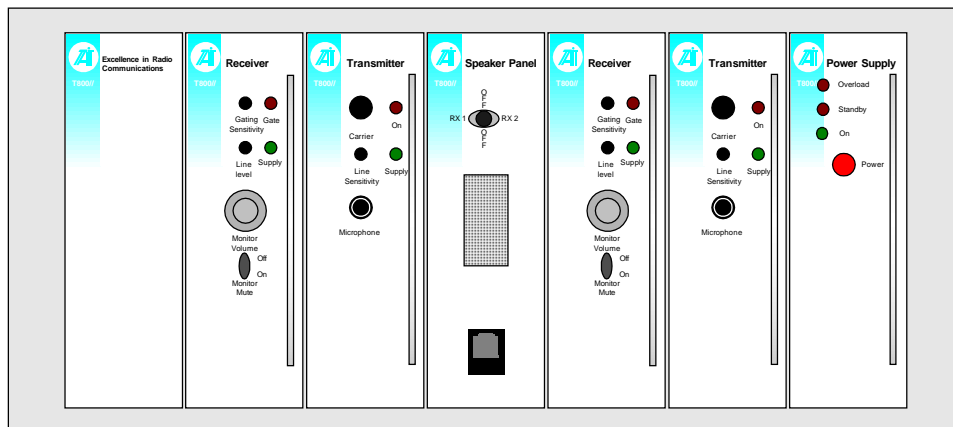- microphone
- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    - Height -   222mm
    - Width -   482mm
    - Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
    - 16.05kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.
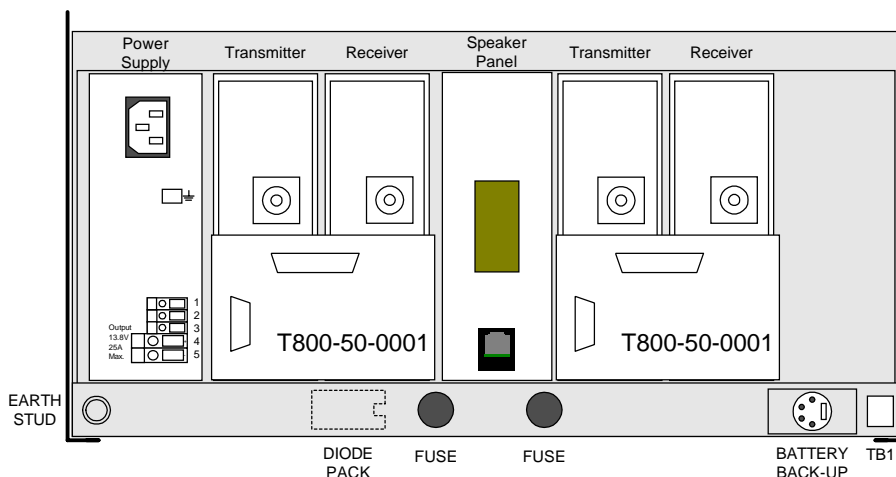
FRONT VIEW

Excellence in Radio Communications

Receiver — Gating Sensitivity / Gate · On / Line level / Supply · Monitor Volume · Off / On / Monitor Mute

Transmitter — Carrier / On / Line Sensitivity / Supply · Microphone

Speaker Panel — O F F / RX 1 · RX 2 / O F F

Receiver — Gating Sensitivity / Gate · On / Line level / Supply · Monitor Volume · Off / On / Monitor Mute

Transmitter — Carrier / On / Line Sensitivity / Supply · Microphone

Power Supply — Overload / Standby / On / Power

OPTIONAL SPEAKER
(T800-15-0000)
OPTIONAL DUPLEXER
AND/OR CHANNEL PANEL

OPTIONAL SPEAKER
(T800-15-0000)
OPTIONAL DUPLEXER
AND/OR CHANNEL PANEL

REAR VIEW

Power Supply | Transmitter | Receiver | Speaker Panel | Transmitter | Receiver

Output 13.8V 25A Max. 1 2 3 4 5

T800-50-0001

T800-50-0001

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

EARTH STUD

DIODE PACK   FUSE   FUSE

BATTERY BACK-UP   TB1

OUTPUT ONLY 13.8V MAX 2 AMPS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	DESCRIPTION	QTY	REFERENCE
T800-24-0004	RACK, FRAME ONLY, ASSEMBLED, BATTERY BACK-UP	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	2	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-15-0003	SPEAKER / PROGRAM PANEL	1	SECTION 8
T800-40-0001	BLANKING BRACKET / FRONT PANEL	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-50-0001	BACKPLANE	2	SECTION 5
X800-93-0001	POWER RAIL (STANDARD)	1	SECTION 3

TAIT
Radio Communications
Christchurch
New Zealand

Version		Drawn	Checked	Date
5	Drg name changed	AMM	ABB	29/11/99
4	Dual spk replaced by switched spk	AMM	ABB	2/9/99
3	Drg No changed, ref added, PA, PS moved	AMM	ABB	25/8/99
2	Parts list added, fans removed	AMM	ABB	18/3/99
1	Original	AMM	ABB	12/1/99

TITLE:
RACK, DUAL 2x25W, SPK SW

DRAWING: T800-22-0x14 RACKFRAME

T800-22-0x15

A dual 25 Watt channel rack with a separate power supply for each channel. The speaker panel can be switched between receivers.

Operational Characteristics
- Dual channel
- 25W output
- Speaker / Programming panel, with Receiver Selectable Switch
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery

Configuration Options
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
- microphone
- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    - Height -   222mm
    - Width -   482mm
    - Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
    - 16.6kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

REAR VIEW

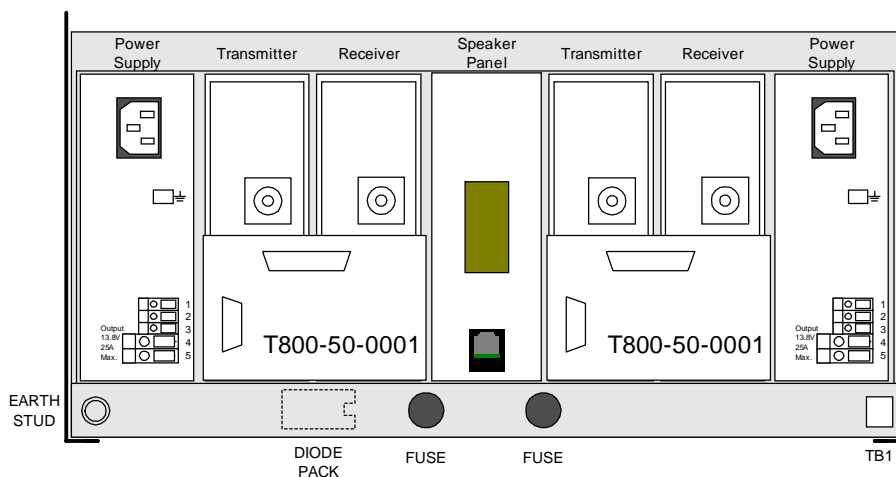| Power Supply | Transmitter | Receiver | Speaker Panel | Transmitter | Receiver | Power Supply |

T800-50-0001   T800-50-0001

Output 13.8V 25A Max.   Output 13.8V 25A Max.

EARTH STUD

DIODE PACK   FUSE   FUSE   TB1
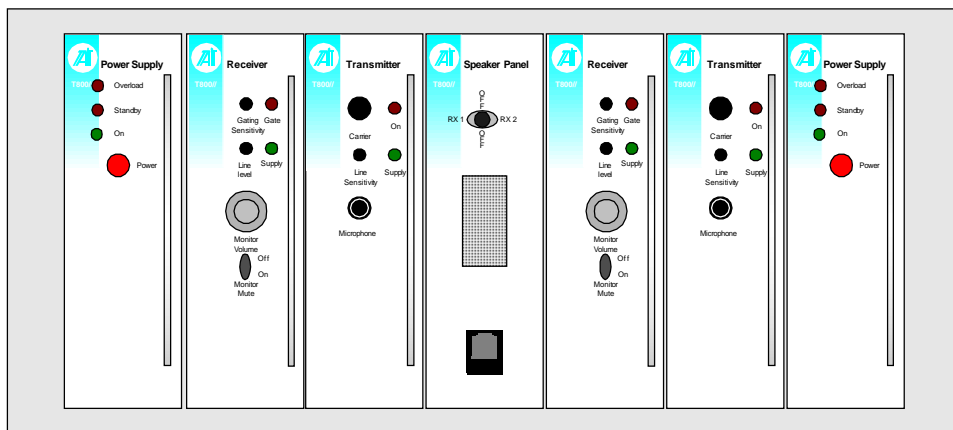
OUTPUT ONLY 13.8V MAX 2 AMPS

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	DESCRIPTION	QTY	REFERENCE
T800-24-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	2	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	2	SECTION 4
T800-15-0003	SPEAKER/PROGRAM PANEL WITH 3 POSITION SWITCH	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-50-0001	BACKPLANE	2	SECTION 5
X800-22-0015	POWER RAIL (STANDARD)	1	SECTION 3

Version		Drawn	Checked	Date
3	Drg name changed	AMM	ABB	29/11/99
3	Drg No changed, Ref added, Relay removed	AMM	ABB	25/8/99
2	Standard supply table added	AMM	ABB	3/2/99
1	Original	AMM	ABB	12/1/99

TITLE:

RACK, DUAL 2x25 WATT, (2 P/SUP

DRAWING: T800-22-0x15 RACKFRAME

T800-22-0x16

A dual 50 Watt channel rack for use in DC only situations.

Operational Characteristics
- Dual channel
- 50W output per channel
- Speaker / Programming panel, with Receiver Selectable Switch
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only   Not Available
- x = 1   External DC only
- x = 2   AC and External DC   Not Available
- x = 3   AC and Battery   Not Available
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery Not Available

Configuration Options
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
- microphone

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
     Height -   222mm
     Width -   482mm
     Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
     20.7kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

Power Amplifier
- Supply
- Low forward power
- High reverse power
- Power

Receiver
- Gating Gate Sensitivity
- Line level   Supply
- Monitor Volume
- On Off
- Monitor Mute

Exciter
- On
- Carrier
- Line Sensitivity   Supply
- Microphone

Speaker Panel
- Off
- RX 1   RX 2
- Off

Receiver
- Gating Gate Sensitivity
- Line level   Supply
- Monitor Volume
- On Off
- Monitor Mute

Exciter
- On
- Carrier
- Line Sensitivity   Supply
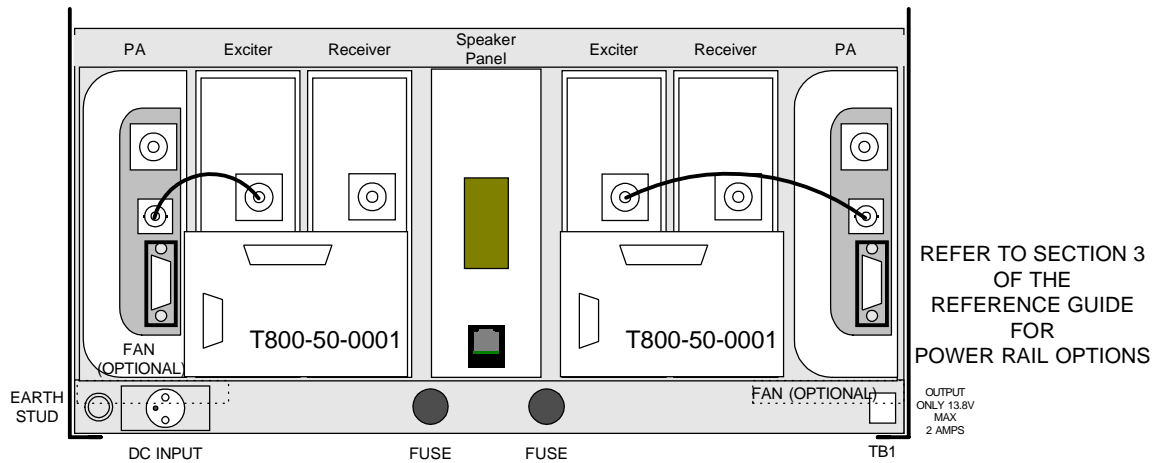- Microphone

Power Amplifier
- Supply
- Low forward power
- High reverse power
- Power

FAN (OPTIONAL)   FAN (OPTIONAL)

REAR VIEW

| PA | Exciter | Receiver | Speaker Panel | Exciter | Receiver | PA |

FAN (OPTIONAL)

T800-50-0001   T800-50-0001

EARTH STUD

FAN (OPTIONAL)

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

OUTPUT
ONLY 13.8V
MAX
2 AMPS

DC INPUT   FUSE   FUSE   TB1

The rack configuration has been changed to reduce
the risk of overheating in some environments.
It is recommended that the optional fans are fitted.

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	DESCRIPTION	QTY	REFERENCE
T800-22-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	2	SECTION 4
T800-45-0000	GUIDE PA 50W KIT	2	SECTION 4
T800-15-0003	SPEAKER/PROGRAM PANEL WITH 3 POSITION SWITCH	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-50-0001	BACKPLANE	2	SECTION 5
X800-91-0002	POWER RAIL (STANDARD)	1	SECTION 3

T A I T

Radio Communications

Christchurch

New Zealand

Version		Drawn	Checked	Date
3	Drg name changed	AMM	ABB	29/11/99
2	Drg No changed, Ref added, PA moved	AMM	ABB	25/8/99
1	Original	AMM	ABB	15/2/99

TITLE:
RACK, DUAL 2x50W, (SPK SWITCHED)

DRAWING: T800-22-0x16 RACKFRAME

T800-22-0x17

A dual 25 Watt channel rack for use in DC only situations.

Operational Characteristics

- Dual channel
- 25W output per channel
- Speaker / Programming panel, with Receiver Selectable Switch
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options

- x = 0   AC only   Not Available (see T800-22-0x14)
- x = 1   External DC only
- x = 2   AC and External DC   Not Available (see T800-22-0x14)
- x = 3   AC and Battery   Not Available (see T800-22-0x14)
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery Not Available (see T800-22-0x14)
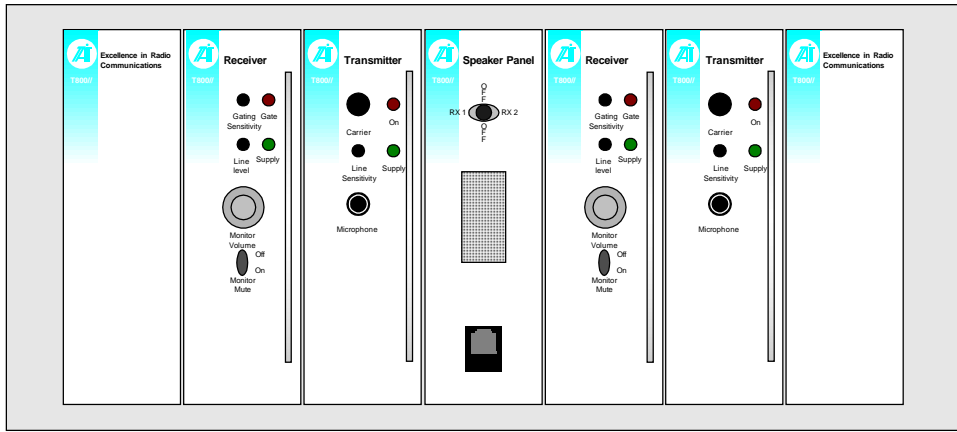
Configuration Options

- Channel Panel
- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
- microphone

Mechanical Characteristics

- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    - Height - 222mm
    - Width -   482mm
    - Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
    - 13.2kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.
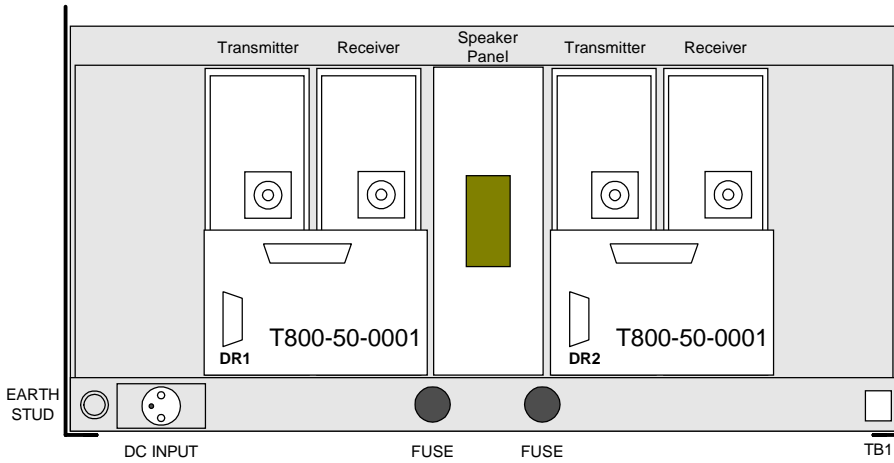
FRONT VIEW

Excellence in Radio Communications

Receiver
Gating Gate
Sensitivity
Line level   Supply
Monitor Volume
Off
On
Monitor Mute

Transmitter
On
Carrier
Line Sensitivity   Supply
Microphone

Speaker Panel
Off
RX 1   RX 2
Off

Receiver
Gating Gate
Sensitivity
Line level   Supply
Monitor Volume
Off
On
Monitor Mute

Transmitter
On
Carrier
Line Sensitivity   Supply
Microphone

Excellence in Radio Communications

OPTIONAL
DUPLEXER
and/or
CHANNEL
PANEL

OPTIONAL
BLANK

OPTIONAL
DUPLEXER
and/or
CHANNEL
PANEL

REAR VIEW

| Transmitter | Receiver | Speaker Panel | Transmitter | Receiver |

T800-50-0001
DR1

T800-50-0001
DR2

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

EARTH STUD

DC INPUT   FUSE   FUSE   TB1

OUTPUT
ONLY 13.8V
MAX
2 AMPS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-22-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	2	SECTION 4
T800-15-0003	SPEAKER / PROGRAM PANEL 3-WAY SWITCH	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	2	SECTION 4
T800-40-0001	BLANKING BRACKET / FRONT PANEL	2	SECTION 8
T800-50-0001	BACKPLANE	2	SECTION 5
X800-91-0001	POWER RAIL (STANDARD)	1	SECTION 3

Version		Drawn	Checked	Date
3	Drg name changed	AMM	ABB	29/11/99
2	Drg No changed, Ref added	AMM	ABB	25/8/99
1	Original	AMM	ABB	2/6/99

TITLE:
RACK, DUAL 2X25W, (SPKR SW)

DRAWING: T800-22-0x17 RACKFRAME

T800-22-0x20

A single repeater or base station channel rack up to 100 Watt maximum output. The rack can accommodate an Rx/Tx Monitor panel and AC power input.

Operational Characteristics
- Single channel
- Up to 100W with option of Transmitter or Exciter / PA combination
- Speaker / Programming panel
- Rx/Tx Monitor Panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only   Not Available
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery   Not Available
- x = 5   AC and External DC and Battery

Configuration Options
- Channel Panel
- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
- microphone
- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    - Height -   222mm
    - Width -   482mm
    - Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
    - 25W -   12.2kg
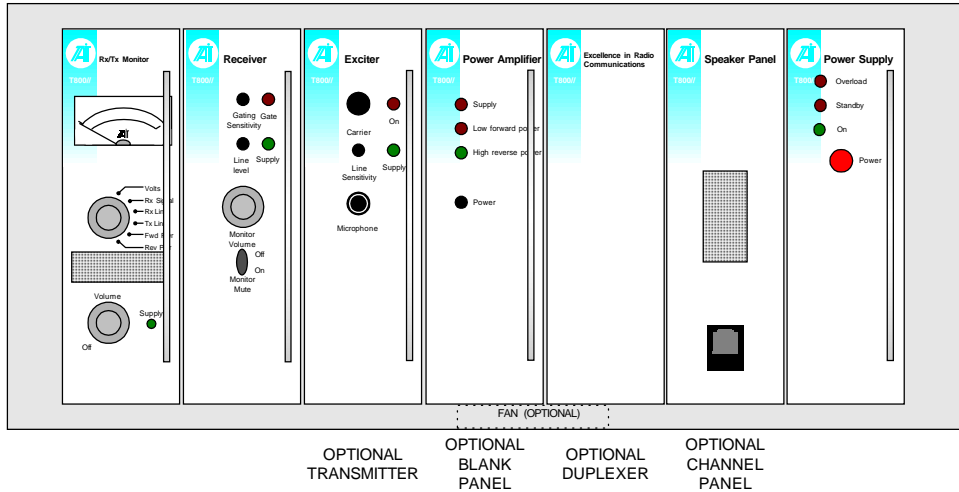   - 50W -   15.95kg
    - 100W - 16.3kg

NOTE: This product offers the versatility of fitting personality boards to provide customised solutions for specific requirements.
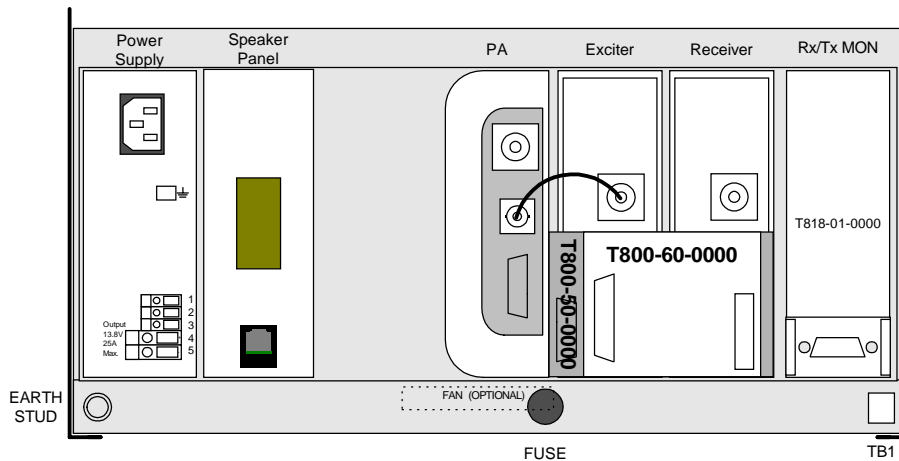Refer to RSD for design and build of personality boards.
Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

Rx/Tx Monitor
Gating Gate
Sensitivity
Line
level   Supply
Volts
Rx Si
Rx Lin
Tx Lin
Fwd
Rev P
Volume
Supply
Off

Receiver
Gating Gate
Sensitivity
Off
Line   Supply
level
Monitor
Volume
Off
On
Monitor
Mute

Exciter
On
Carrier
Line   Supply
Sensitivity
Microphone

Power Amplifier
Supply
Low forward power
High reverse power
Power

Excellence in Radio Communications

Speaker Panel

Power Supply
Overload
Standby
On
Power

FAN (OPTIONAL)

| OPTIONAL TRANSMITTER | OPTIONAL BLANK PANEL | OPTIONAL DUPLEXER | OPTIONAL CHANNEL PANEL |

REAR VIEW

Power Supply | Speaker Panel | PA | Exciter | Receiver | Rx/Tx MON

Output
13.8V
25A
Max.
1
2
3
4
5

T800-50-0000

T800-60-0000

T818-01-0000

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

EARTH STUD

FAN (OPTIONAL)

FUSE

OUTPUT
ONLY 13.8V
MAX
2 AMPS

TB1

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-22-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	1	SECTION 4
T800-43-0001	GUIDE KIT T1500/300 SINGLE 'D'	1	SECTION 4
T800-45-0000	GUIDE PA 50W KIT	1	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-15-0000	SPEAKER / PROGRAM PANEL	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-40-0001	BLANKING BRACKET / FRONT PANEL	1	SECTION 8
T800-50-0000	BACKPLANE	1	SECTION 5
T800-60-0000	PERSONALITY BOARD	1	SECTION 6
X800-90-0000	POWER RAIL (STANDARD)	1	SECTION 3

TAIT
Radio Communications
Christchurch
New Zealand

Version		Drawn	Checked	Date
4	Drg name changed	AMM	ABB	29/11/99
3	Drg No changed, Ref added	AMM	ABB	25/8/99
2	Parts list added	AMM	ABB	8/3/99
1	Original	AMM	ABB	12/1/99

TITLE:
RACK, SNGL<100W, (MONITOR)

DRAWING: T800-22-0x20 RACKFRAME

T800-22-0x21

A single 25 Watt repeater or base station channel rack to accommodate an Rx/Tx Monitor and rack mounted circuit breaker for protection on the DC power input.

Operational Characteristics
- Single channel
- 25W output only
- Speaker / Programming panel
- Panel circuit breaker
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only   Not Available
- x = 1   External DC only
- x = 2   AC and External DC   Not Available
- x = 3   AC and Battery   Not Available
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery   Not Available

Configuration Options
- Channel Panel
- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
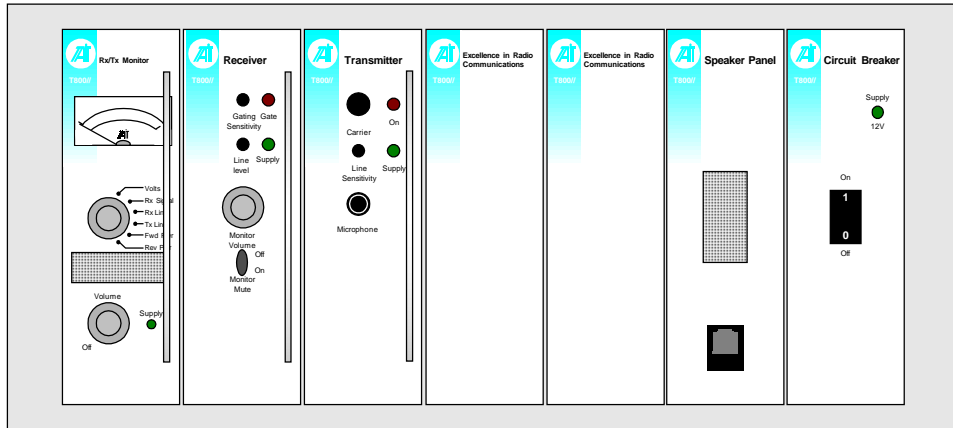- microphone

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    - Height -   222mm
    - Width -   482mm
    - Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
    - 10.35kg

NOTE: This product offers the versatility of fitting personality boards to provide customised solutions for specific requirements.
Refer to RSD for design and build of personality boards.

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.
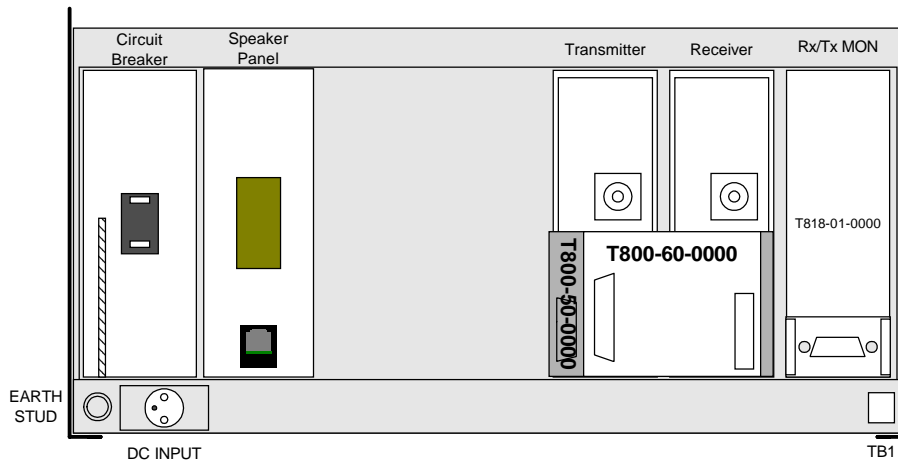
FRONT VIEW

Rx/Tx Monitor

Receiver
Gating Gate
Sensitivity
Line
level Supply
Monitor
Volume
Off
On
Monitor
Mute

Transmitter
On
Carrier
Line Supply
Sensitivity
Microphone

Excellence in Radio Communications

Excellence in Radio Communications

Speaker Panel

Circuit Breaker
Supply
12V
On
1
0
Off

Volts
Rx S
Rx Li
Tx Li
Fwd
Rev P
Volume
Supply
Off

OPTIONAL
DUPLEXER

OPTIONAL
CHANNEL
PANEL

REAR VIEW

| Circuit Breaker | Speaker Panel | | Transmitter | Receiver | Rx/Tx MON |

T800-50-0000 T800-60-0000

T818-01-0000

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

EARTH STUD

DC INPUT

OUTPUT
ONLY 13.8V
MAX
2 AMPS

TB1

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	DESCRIPTION	QTY	REFERENCE
T800-22-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	1	SECTION 4
T800-43-0001	GUIDE KIT T1500/300 SINGLE 'D'	1	SECTION 4
T800-45-0000	GUIDE PA 50W KIT	1	SECTION 4
T800-15-0000	SPEAKER / PROGRAM PANEL	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-40-0001	BLANKING BRACKET / FRONT PANEL	1	SECTION 8
T800-17-0010	PANEL CIRCUIT BREAKER WITH 10AMP SWITCH	1	SECTION 8
T800-50-0000	BACKPLANE	1	SECTION 5
T800-60-0000	PERSONALITY BOARD	1	SECTION 6
316-06615-00	BLANKING FRONT PANEL ONLY	1	SECTION 8
X800-22-0121	POWER RAIL (STANDARD)	1	SECTION 3

Version		Drawn	Checked	Date
5	Drg name changed	AMM	ABB	29/11/99
4	Drg No changed, Ref added	AMM	ABB	25/8/99
3	Parts list added	AMM	ABB	18/3/99
2	Change of Title	AMM	ABB	14/12/98
1	Original	AMM	ABB	22/10/98

TITLE: RACK, SNGL<25W, (MONITOR)

DRAWING: T800-22-0x21 RACKFRAME

T800-22-0x22

A single 50 Watt repeater or base station channel rack to accommodate an Rx/Tx Monitor and rack mounted circuit breaker for protection on the DC power input.

Operational Characteristics
- Single channel
- 50W output only
- Speaker / Programming panel
- Panel circuit breaker
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only   Not Available
- x = 1   External DC only
- x = 2   AC and External DC   Not Available
- x = 3   AC and Battery   Not Available
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery Not Available

Configuration Options
- Channel Panel
- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
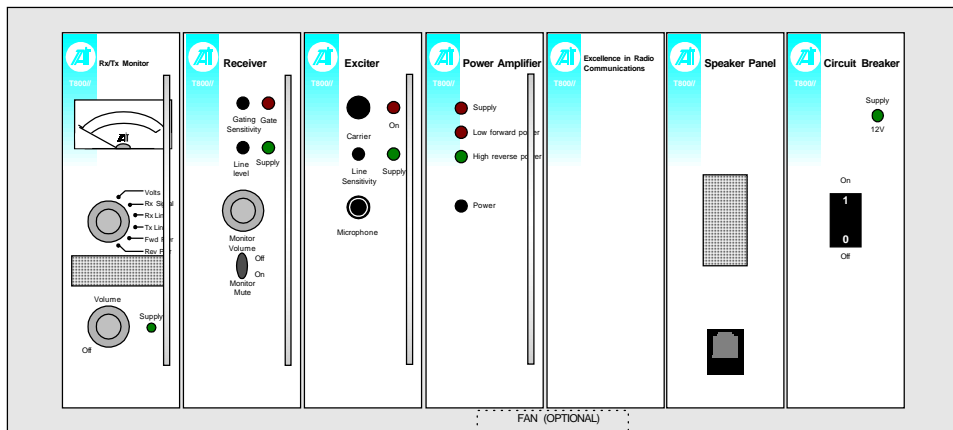- microphone

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
     Height -   222mm
     Width -   482mm
     Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
     14.1kg

NOTE: This product offers the versatility of fitting personality boards to provide customised solutions for specific requirements.
Refer to RSD for design and build of personality boards.

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.
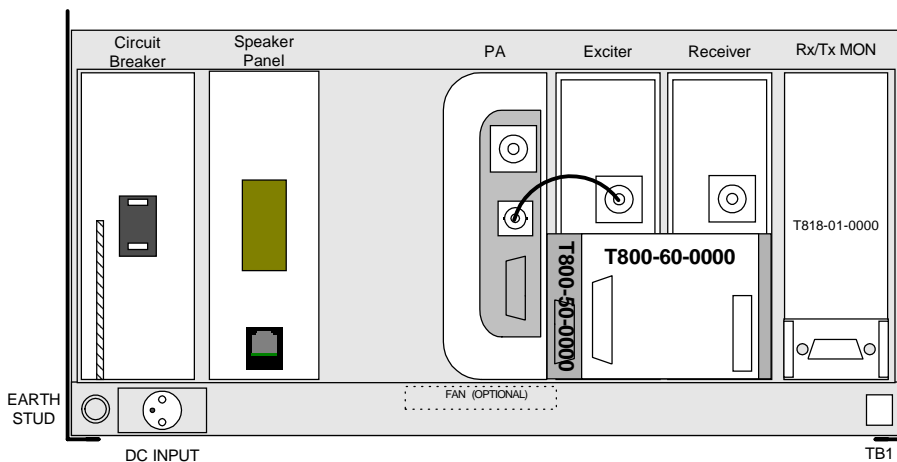
FRONT VIEW

Rx/Tx Monitor | Receiver | Exciter | Power Amplifier | Excellence in Radio Communications | Speaker Panel | Circuit Breaker

OPTIONAL DUPLEXER

OPTIONAL CHANNEL PANEL

FAN (OPTIONAL)

REAR VIEW

Circuit Breaker | Speaker Panel | PA | Exciter | Receiver | Rx/Tx MON

T800-50-0000
T800-60-0000
T818-01-0000

REFER TO SECTION 3 OF THE REFERENCE GUIDE FOR POWER RAIL OPTIONS

EARTH STUD

DC INPUT

FAN (OPTIONAL)

OUTPUT ONLY 13.8V MAX 2 AMPS

TB1

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-22-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	1	SECTION 4
T800-43-0001	GUIDE KIT T1500/300 SINGLE 'D'	1	SECTION 4
T800-45-0000	GUIDE PA 50W KIT	1	SECTION 4
T800-15-0000	SPEAKER / PROGRAM PANEL	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-40-0001	BLANKING BRACKET / FRONT PANEL	1	SECTION 8
T800-17-0020	PANEL CIRCUIT BREAKER WITH 20AMP SWITCH	1	SECTION 8
T800-50-0000	BACKPLANE	1	SECTION 5
T800-60-0000	PERSONALITY BOARD	1	SECTION 6
X800-22-0122	POWER RAIL (STANDARD)	1	SECTION 3

T A I T

Radio Communications

Christchurch

New Zealand

Version		Drawn	Checked	Date
5	Drg name changed	AMM	ABB	29/11/99
4	Drg No changed, Ref added	AMM	ABB	25/8/99
3	Parts list added	AMM	ABB	8/3/99
2	Change of Title	AMM	ABB	14/12/98
1	Original	AMM	ABB	22/10/98

TITLE:

RACK, SNGL<=50W, (MONITOR)

DRAWING: T800-22-0x22 RACKFRAME

T800-22-0x23

A single channel rack with 50 Watt maximum output, alarm outputs and AC power supply.

Operational Characteristics
- Single channel
- Up to 50W output
- Speaker / Programming panel
- Alarm Panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery

Configuration Options
- Channel Panel
- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
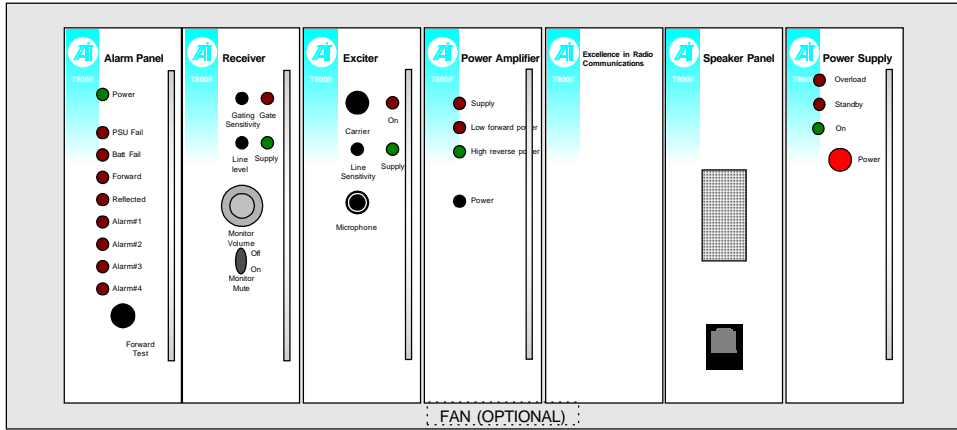- microphone
- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    - Height -   222mm
    - Width -   482mm
    - Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
    - 25W - 12.1kg
    - 50W - 15.85kg

NOTE: This product offers the versatility of fitting personality boards to provide customised solutions for specific requirements.
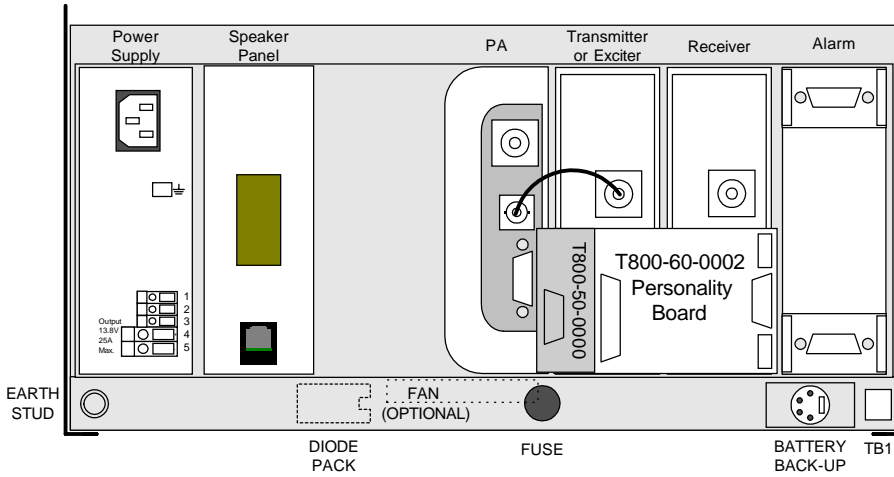Refer to RSD for design and build of personality boards.

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

Alarm Panel
- Power
- PSU Fail
- Batt Fail
- Forward
- Reflected
- Alarm#1
- Alarm#2
- Alarm#3
- Alarm#4
- Forward Test

Receiver
- Gating Gate Sensitivity
- Line level
- Supply
- Monitor Volume
- Off
- On
- Monitor Mute

Exciter
- On
- Carrier
- Line Sensitivity
- Supply
- Microphone

Power Amplifier
- Supply
- Low forward power
- High reverse power
- Power

Excellence in Radio Communications

Speaker Panel

Power Supply
- Overload
- Standby
- On
- Power

FAN (OPTIONAL)

OPTIONAL TRANSMITTER | OPTIONAL BLANK | OPTIONAL DUPLEXER | OPTIONAL CH/PNL | OPTIONAL BLANK

REAR VIEW

Power Supply | Speaker Panel | PA | Transmitter or Exciter | Receiver | Alarm

T800-50-0000

T800-60-0002 Personality Board

Output 13.8V 25A Max.
1 2 3 4 5

EARTH STUD

DIODE PACK

FAN (OPTIONAL)

FUSE

BATTERY BACK-UP

TB1

OUTPUT ONLY 13.8V MAX 2 AMPS

REFER TO SECTION 3 OF THE REFERENCE GUIDE FOR POWER RAIL OPTIONS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-24-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	1	SECTION 4
T800-45-0000	GUIDE PA 50W KIT	1	SECTION 4
T800-43-0000	GUIDE KIT T1500/300	1	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-15-0000	SPEAKER/PROGRAM PANEL	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-40-0001	BLANKING BRACKET / F-PNL KIT	1	SECTION 8
T800-50-0000	BACKPLANE	1	SECTION 5
T800-60-0002	PERSONALITY BOARD + CH/PNL + ALARMS (0V)	1	SECTION 6
X800-93-0000	POWER RAIL (STANDARD)	1	SECTION 3

Version		Drawn	Checked	Date
4	Drg name changed	AMM	ABB	29/11/99
3	Drg No changed, Ref added	AMM	ABB	25/8/99
2	Change personality board	AMM	ABB	30/3/99
1	Original	AMM	ABB	15/2/99

TITLE: RACK, SNGL<100W, (ALARMS 0V)

DRAWING: T800-22-0x23 RACKFRAME

T800-22-0x24

A single channel rack with 50 Watt maximum output, alarm outputs (LO) and AC power supply.

Operational Characteristics
- Single channel
- Up to 50W output
- Speaker / Programming panel
- Alarm Panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery

Configuration Options
- Channel Panel
- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
- microphone
- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    Height -   222mm
    Width -   482mm
    Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
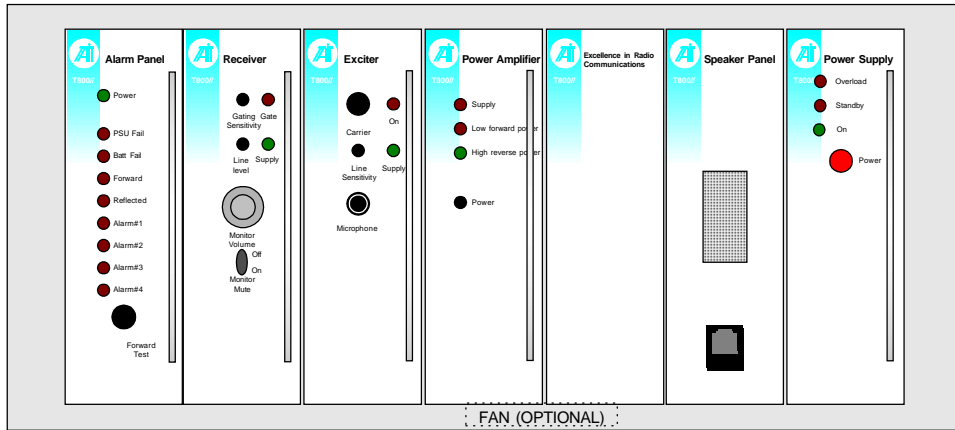   25W - 12.1kg
    50W - 15.85kg

NOTE: This product offers the versatility of fitting personality boards to provide customised solutions for specific requirements.
Refer to RSD for design and build of personality boards.
Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.
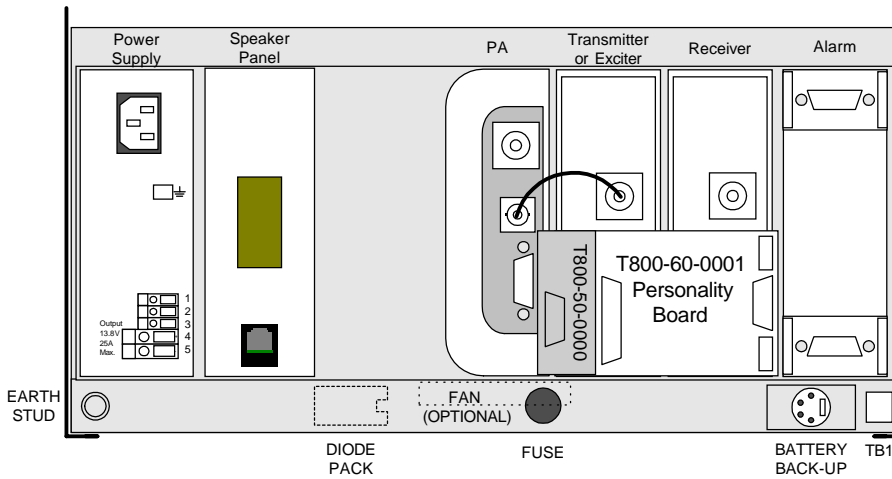
FRONT VIEW

Alarm Panel
- Power
- PSU Fail
- Batt Fail
- Forward
- Reflected
- Alarm#1
- Alarm#2
- Alarm#3
- Alarm#4
- Forward Test

Receiver
- Gating Sensitivity / Gate
- Line level / Supply
- Monitor Volume
- Off / On
- Monitor Mute

Exciter
- On
- Carrier
- Line Sensitivity / Supply
- Microphone

Power Amplifier
- Supply
- Low forward power
- High reverse power
- Power

Excellence in Radio Communications

Speaker Panel

Power Supply
- Overload
- Standby
- On
- Power

FAN (OPTIONAL)

OPTIONAL TRANSMITTER | OPTIONAL BLANK | OPTIONAL DUPLEXER | OPTIONAL CH/PNL | OPTIONAL BLANK

REAR VIEW

Power Supply | Speaker Panel | PA | Transmitter or Exciter | Receiver | Alarm

Output 13.8V 25A Max.
1 2 3 4 5

T800-50-0000

T800-60-0001 Personality Board

REFER TO SECTION 3 OF THE REFERENCE GUIDE FOR POWER RAIL OPTIONS

EARTH STUD

DIODE PACK

FAN (OPTIONAL)

FUSE

BATTERY BACK-UP

TB1

OUTPUT ONLY 13.8V MAX 2 AMPS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	DESCRIPTION	QTY	REFERENCE
T800-24-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	1	SECTION 4
T800-45-0000	GUIDE PA 50W KIT	1	SECTION 4
T800-43-0000	GUIDE KIT T1500/300	1	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-15-0000	SPEAKER/PROGRAM PANEL	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-40-0001	BLANKING BRACKET / F-PNL KIT	1	SECTION 8
T800-50-0000	BACKPLANE	1	SECTION 5
T800-60-0001	PERSONALITY BOARD + CH/PNL + ALARMS (LO)	1	SECTION 6
X800-93-0000	POWER RAIL (STANDARD)	1	SECTION 3

TAIT
Radio Communications
Christchurch
New Zealand

Version		Drawn	Checked	Date
2	Drg name changed	AMM	ABB	29/11/99
1	Original	AMM	ABB	7/9/99

TITLE: RACK, SNGL<100W, (ALARMS LO)

DRAWING: T800-22-0x24 RACKFRAME

T800-23-0x00

A single channel rack with 25 Watt maximum output mounted in a 2RU Slimline configuration for use in DC situations.

Operational Characteristics
- Single channel
- Up to 25W output
- Speaker / Programming Port

Power Supply Options
- x = 0   AC only   Not Available (see T800-23-0x01)
- x = 1   External DC only
- x = 2   AC and External DC   Not Available
- x = 3   AC and Battery   Not Available
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery Not Available
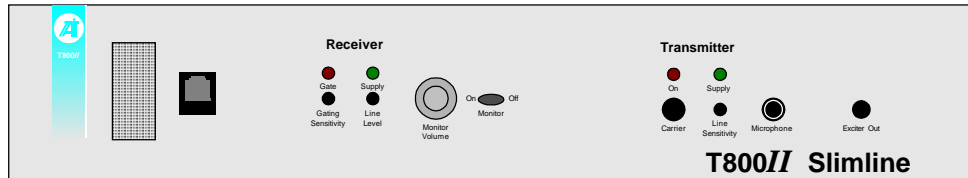
Configuration Options
- Coaxial Relay
- Microphone
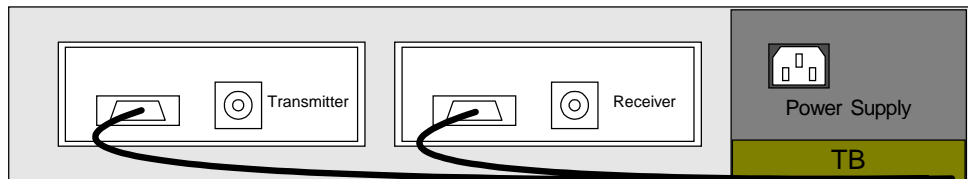
Mechanical Characteristics
- 2 Rack Units x 19" rack to house up to 7 modules
- Size
    - Height -   89mm
    - Width -   482mm
    - Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
    - 25W – 3.9kg

This configuration includes Receiver and Transmitter modules. (to be specified when ordering)

FRONT VIEW

Receiver

Gate
Supply

Gating
Sensitivity
Line
Level

Monitor
Volume

On   Off
Monitor

Transmitter

On   Supply

Carrier
Line
Sensitivity
Microphone
Exciter Out

T800*II* Slimline

REAR VIEW

Transmitter

Receiver

TB
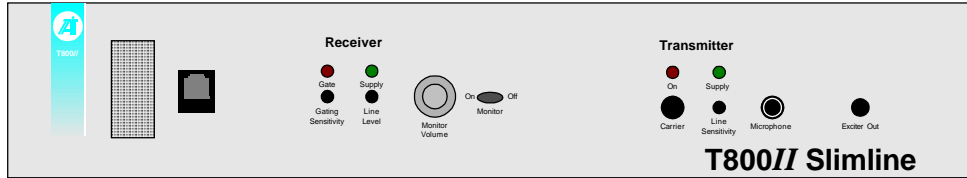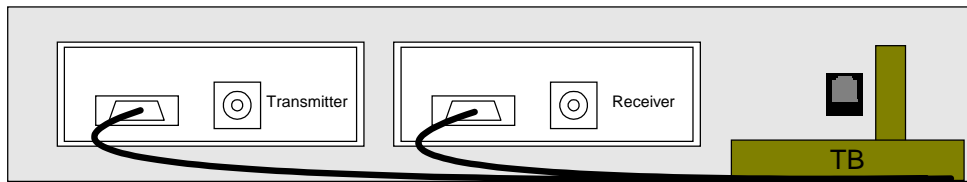
ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-23-0000	SLIMLINE ASSEMBLY KIT + CABLES	1	SECTION 4
T8n5-nn-nnnn	RECEIVER	1	SECTION 8
T8n6-nn-nnnn	TRANSMITTER	1	SECTION 8

T800-23-0x01

A single channel rack with 25 Watt maximum output mounted in a 2RU Slimline configuration, with an AC power supply.

Operational Characteristics
- Single channel
- Up to 25W output
- Speaker / Programming Port

Power Supply Options
- x = 0   AC only
- x = 1   External DC only   Not Available (see T800-23-0x00)
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery   Not Available
- x = 5   AC and External DC and Battery

Configuration Options
- Coaxial Relay
- Microphone

Mechanical Characteristics
- 2 Rack Units x 19" rack to house up to 7 modules
- Size
    Height -   89mm
    Width -   482mm
    Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
    25W – 8.55kg

This configuration includes Receiver and Transmitter modules. (to be specified when ordering)
.

FRONT VIEW

Receiver

Gate
Gating
Sensitivity

Supply
Line
Level

Monitor
Volume

On Off
Monitor

Transmitter

On
Carrier

Supply
Line
Sensitivity

Microphone

Exciter Out

T800II Slimline

REAR VIEW

Transmitter

Receiver

Power Supply

TB

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	DESCRIPTION	QTY	REFERENCE
T800-23-0001	SLIMLINE ASSEMBLY KIT + CABLES + POWER SUPPLY	1	SECTION 4
T8n5-nn-nnnn	RECEIVER	1	SECTION 8
T8n6-nn-nnnn	TRANSMITTER	1	SECTION 8

T800-25-0000

A single 25W channel, housed in a portable case with sealed lead acid batteries.

Operational Characteristics
- Single channel
- Up to 25W output
- DC only operation - Batteries and external DC supply input
- Speaker / Programming panel
- DC line fuse
- Backplane interface
- Battery Isolation Switch

Configuration Options
- Channel Panel
- Duplexer
- Coaxial Relay
- Antenna

Mechanical Characteristics
- Portable case to house up to 4 modules
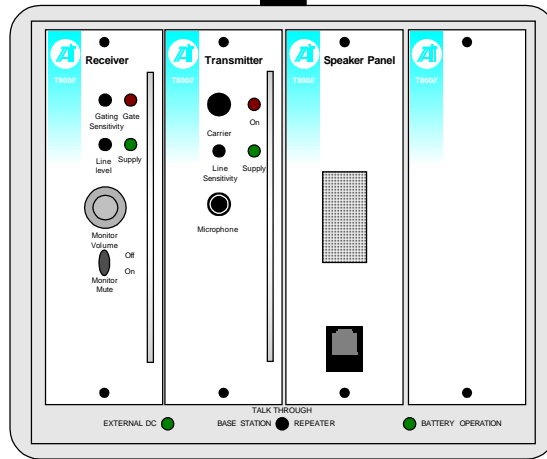- Top Mounting Duplexer Tray
- Size

	Case Only	with Handles and Connectors
Height -	242mm	305mm
Width -	255mm	300mm
Depth -	460mm	460mm

- Weight – (rackframe with modules shown)
  15.85kg

CAUTION: If operating above 15 Watts, front and rear covers must be removed.
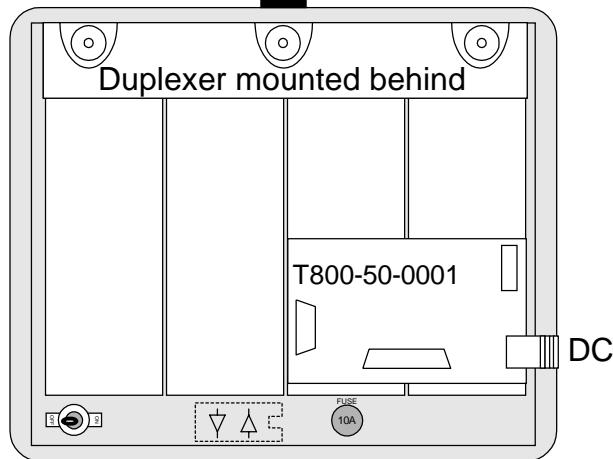
Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

T8n5 -nn-0200   T8n6 -nn-0200   T800-15-0000
SPKR/PROG PNL
or
TA087-01-0000
100 CHANNEL
CHANNEL PANEL
or
TA387-01-0000
10 CHANNEL
CHANNEL PANEL

REAR VIEW

Duplexer mounted behind

T800-50-0001

DC

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T991-05-0100	CASE, PORTABLE REPEATER - 0100 VERSION	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	1	SECTION 4
T800-40-0001	BLANK PANEL AND FIXING KIT	1	SECTION 4
T800-15-0000	SPEAKER / PROGRAM PANEL	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-50-0001	BACKPLANE	1	SECTION 5
290-00010-48	BATTERY SEALED LEAD ACID 12V 6.5A	2	
X800-25-0000	STANDARD LOOM ASSEMBLY	1	
W800-25-0000	WIRING LIST T800-25-0000	1	

T800-25-0001

A single 25W channel, housed in a portable case with sealed lead acid batteries. This unit can use an external AC power source.

Operational Characteristics

- Single channel
- Up to 25W output
- AC and DC operation - Batteries, external AC and DC supply input
- Speaker / Programming panel
- DC line fuse
- Backplane interface
- Battery Isolation Switch
- Talk Through Switch

Configuration Options

- Channel Panel
- Duplexer
- Coaxial Relay
- Antenna

Mechanical Characteristics

- Portable case to house up to 4 modules
- Top Mounting Duplexer Tray
- Size

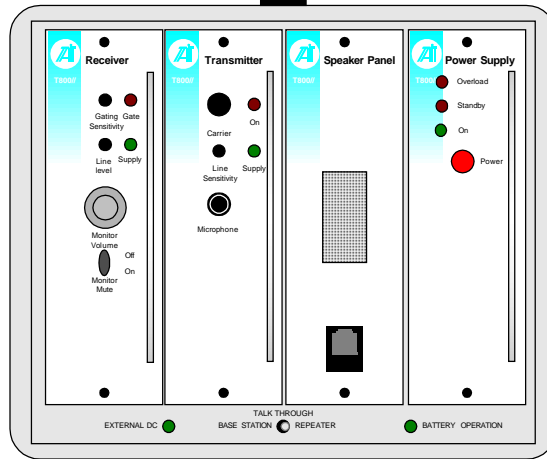|	Case Only	with Handles and Connectors
Height -	242mm	305mm
Width -	255mm	300mm
Depth -	460mm	460mm

- Weight – (rackframe with modules shown)
    18.3kg

CAUTION: If operating above 15 Watts, front and rear covers must be removed.

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.
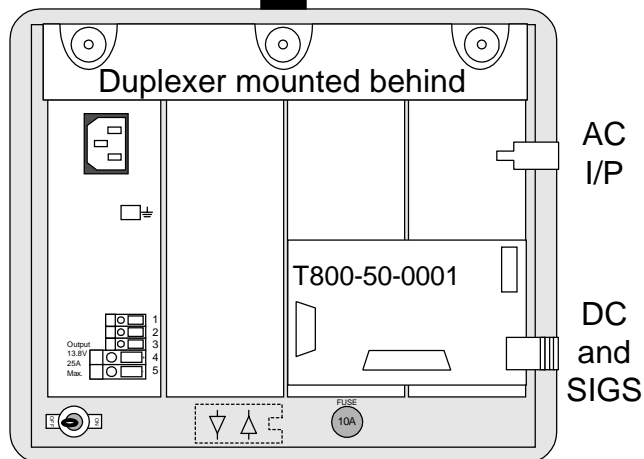
FRONT VIEW

Receiver

Gating Gate
Sensitivity
Supply
Line
level

Monitor
Volume
Off
On
Monitor
Mute

Transmitter

On
Carrier
Supply
Line
Sensitivity

Microphone

Speaker Panel

Power Supply

Overload
Standby
On
Power

EXTERNAL DC

TALK THROUGH
BASE STATION   REPEATER

BATTERY OPERATION

T8n5 -nn-0200   T8n6 -nn-0200

T800-15-0000
SPKR/PROG PNL
or
TA087-01-0000
100 CHANNEL
CHANNEL PANEL
or
TA387-01-0000
10 CHANNEL
CHANNEL PANEL

REAR VIEW

Duplexer mounted behind

AC
I/P

T800-50-0001

DC
and
SIGS

Output
13.8V
25A
Max.

1
2
3
4
5

FUSE
10A

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T991-05-0100	CASE, PORTABLE REPEATER - 0100 VERSION	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	1	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-15-0000	SPEAKER / PROGRAM PANEL	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-50-0001	BACKPLANE	1	SECTION 5
290-00010-48	BATTERY SEALED LEAD ACID 12V 6.5A	2	
X800-25-0000	STANDARD LOOM ASSEMBLY	1	
W800-25-0000	WIRING LIST T800-25-0000	1	

T800-25-0002

A single channel with up to 50W output, housed in a portable case with no batteries. This unit can use external AC or DC power source.

Operational Characteristics
- Single channel
- Up to 50W output
- AC and DC operation - External AC and DC supply input
- DC line fuse
- Backplane interface
- Battery Isolation Switch
- Talk Through Switch

Configuration Options
- Channel Panel
- Duplexer
- Coaxial Relay
- Antenna

Mechanical Characteristics
- Portable case to house up to 4 modules
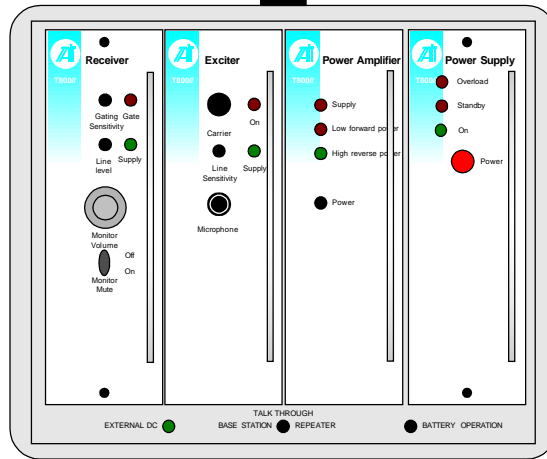- Top Mounting Duplexer Tray
- Size

	Case Only	with Handles and Connectors
Height -	242mm	305mm
Width -	255mm	300mm
Depth -	460mm	460mm

- Weight – (rackframe with modules shown)
    - 25W - 12.55kg
    - 50W - 15.9kg

CAUTION: If operating above 15 Watts, front and rear covers must be removed.

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

Receiver
- Gating Sensitivity
- Gate
- Supply
- Line level
- Monitor Volume
- Monitor Mute — Off / On

Exciter
- Carrier
- On
- Line Sensitivity
- Supply
- Microphone

Power Amplifier
- Supply
- Low forward power
- High reverse power
- Power

Power Supply
- Overload
- Standby
- On
- Power

TALK THROUGH

EXTERNAL DC   BASE STATION   REPEATER   BATTERY OPERATION

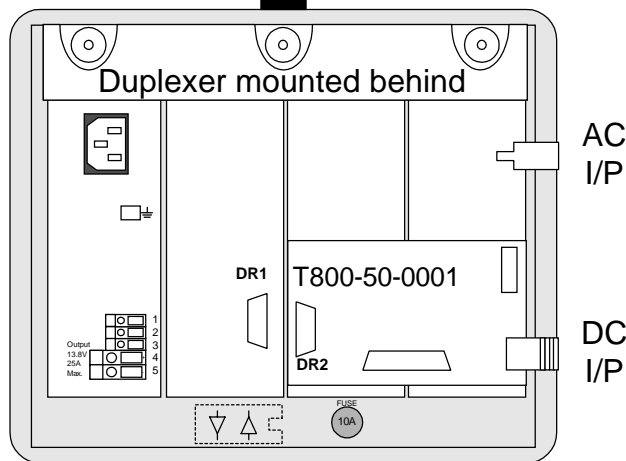| OPTIONAL BLANK PANEL or OPTIONS PANEL | OPTIONAL TRANSMITTER | T800-15-0000 SPKR/PROG PNL or TA087-01-0000 100 CHANNEL CHANNEL PANEL or TA387-01-0000 10 CHANNEL CHANNEL PANEL | T800-15-0000 SPKR/PROG PNL or TA087-01-0000 100 CHANNEL CHANNEL PANEL or TA387-01-0000 10 CHANNEL CHANNEL PANEL |

REAR VIEW

Duplexer mounted behind

AC I/P

DR1

T800-50-0001

DR2

DC I/P

Output 13.8V 25A Max. 1 2 3 4 5

FUSE 10A

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T991-05-0100	CASE, PORTABLE REPEATER - 0100 VERSION	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	1	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-45-0000	PA (50W) GUIDE KIT	1	SECTION 4
T800-50-0001	BACKPLANE	1	SECTION 5
X800-25-0002	RACK KIT	1	
W800-25-0002	WIRING LIST T800-25-0002	1	

T A I T
Radio Communications
Christchurch
New Zealand

Version		Drawn	Checked	Date
2	Reference added	AMM	ABB	26/8/99
1	Original	AMM	ABB	4/6/99

TITLE:
PORTABLE REPEATER <=50W
X-DC + AC (NO BATT)

DRAWING: T800-25-0002

T800-27-0x00

A dual channel rack with 25 Watt per channel maximum output and Tone Remote / Alarm outputs.

Operational Characteristics
- Dual channel
- Up to 25W output
- Speaker / Programming panel
- Remote / Alarm Panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery

Configuration Options
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
- microphone
- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    Height -   222mm
    Width -   482mm
    Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
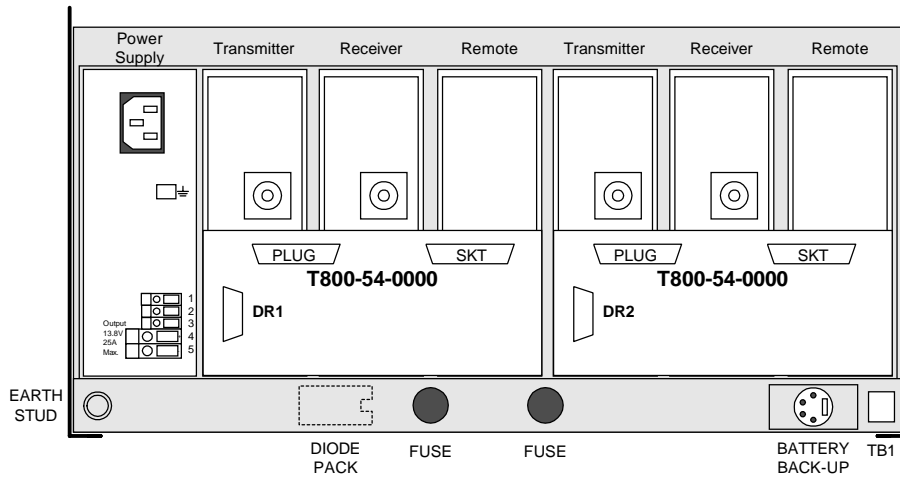   25W -   20.25kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW
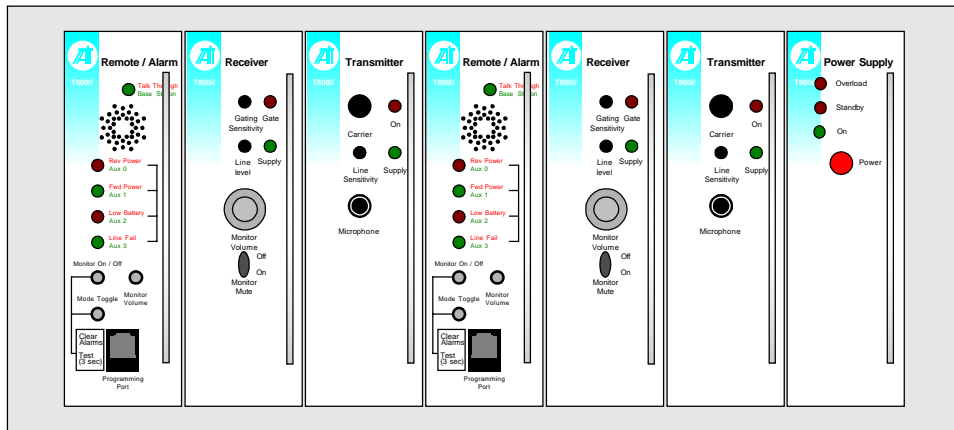
OPTIONAL
BLANK

REAR VIEW

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-11-0004	RACK, FRAME ONLY, ASSEMBLED 2 BATT BACK-UP	1	SECTION 4
T800-41-0003	TRIPLE GUIDE KIT	2	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-54-0000	BACKPLANE RACK REMOTE	2	SECTION 5
X800-93-0001	POWER RAIL (STANDARD)	1	SECTION 3

T A I T

Radio Communications

Christchurch

New Zealand

Version		Drawn	Checked	Date
4				
3	Drg name changed	AMM	ABB	26/11/99
2	Drg No changed, Ref added	AMM	ABB	26/8/99
1	Original	AMM	ABB	20/10/98

TITLE:
RACK, DUAL 2X25W, (REMOTE

DRAWING: T800-27-0x00 RACKFRAME

T800-27-0x01

A single channel rack with 100 Watt maximum output, Tone Remote / Alarm outputs and AC power supply.

Operational Characteristics

- Single channel
- Up to 100W output
- Speaker / Programming panel
- Remote / Alarm Panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options

- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery
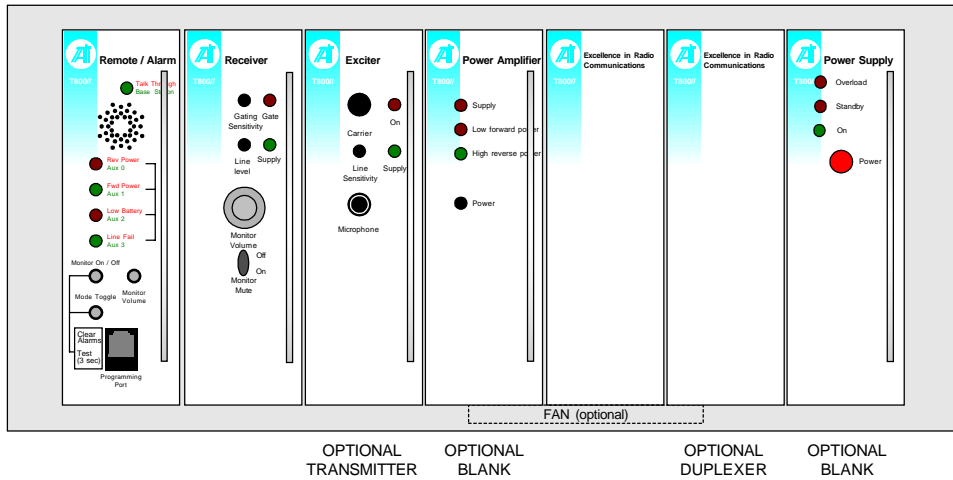
Configuration Options

- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0011 installation kit
- microphone
- DC converter
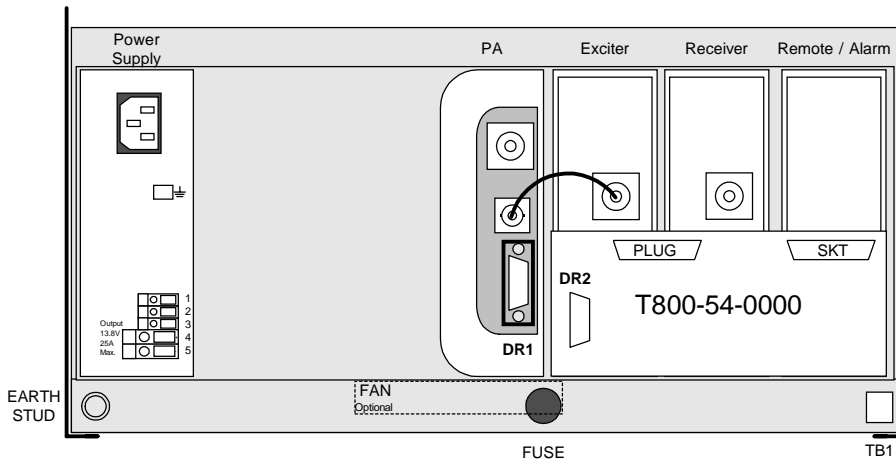
Mechanical Characteristics

- 5 Rack Units x 19" rack to house up to 7 modules
- Size
      Height -   222mm
      Width -   482mm
      Depth -   322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
      25W -   12.8kg
      50W -   16.55kg
      100W - 16.9kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

| Remote / Alarm | Receiver | Exciter | Power Amplifier | Excellence in Radio Communications | Excellence in Radio Communications | Power Supply |

Remote / Alarm
- Talk Through
- Base Station
- Rev Power Aux 0
- Fwd Power Aux 1
- Low Battery Aux 2
- Line Fail Aux 3
- Monitor On / Off
- Mode Toggle
- Monitor Volume
- Clear Alarms
- Test (3 sec)
- Programming Port

Receiver
- Gating Gate Sensitivity
- Line level
- Supply
- Monitor Volume
- Off
- On
- Monitor Mute

Exciter
- On
- Carrier
- Line Sensitivity
- Supply
- Microphone

Power Amplifier
- Supply
- Low forward power
- High reverse power
- Power

Power Supply
- Overload
- Standby
- On
- Power

FAN (optional)

OPTIONAL TRANSMITTER   OPTIONAL BLANK   OPTIONAL DUPLEXER   OPTIONAL BLANK

REAR VIEW

Power Supply

PA   Exciter   Receiver   Remote / Alarm

DR2

DR1

PLUG   SKT

T800-54-0000

Output 13.8V 25A Max.
1 2 3 4 5

EARTH STUD

FAN Optional

FUSE

REFER TO SECTION 3 OF THE REFERENCE GUIDE FOR POWER RAIL OPTIONS

OUTPUT ONLY 13.8V MAX 2 AMPS

TB1

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-24-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0003	GUIDE TRIPLE SERIES// KIT	1	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-45-0000	GUIDE PA 50W SERIES// KIT	1	SECTION 4
T800-40-0001	BLANKING BRACKET / FRONT PANEL	2	SECTION 8
X800-54-0000	T803-00-0000 BACKPLANE ASSEMBLY	1	SECTION 5
X800-90-0000	POWER RAIL (STANDARD)	1	SECTION 3

T800-28-0x00

A single channel rack with 100 Watt maximum output, and provision for a High Stability Oscillator to enable the Paging function.

Operational Characteristics
- Single channel - Paging
- Up to 100W output
- Speaker / Programming panel
- High Stability Oscillator
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery

Configuration Options
- Duplexer
- Coaxial Relay
- Fans - single or double
- Interfaces to Changeover Module TA703-00-xxxx using TA703-11-0010 installation kit
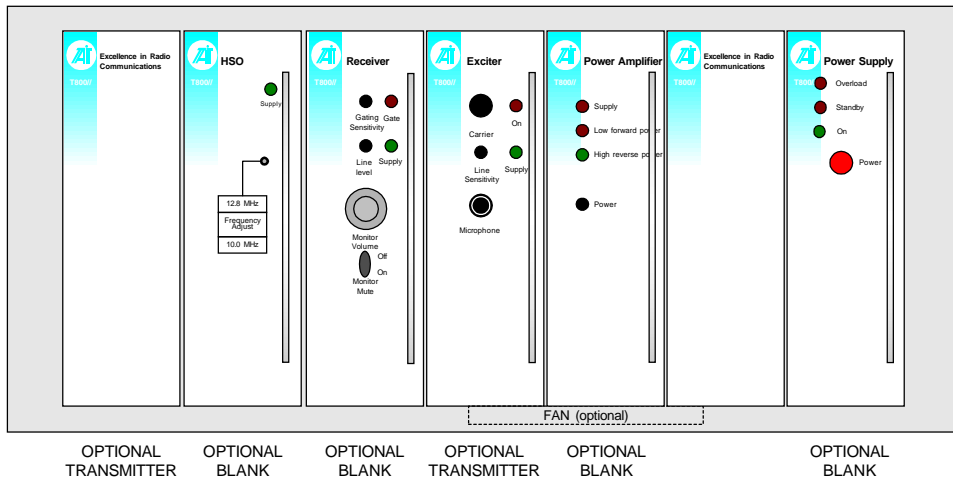- microphone
- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    - Height -   222mm
    - Width -   482mm
    - Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
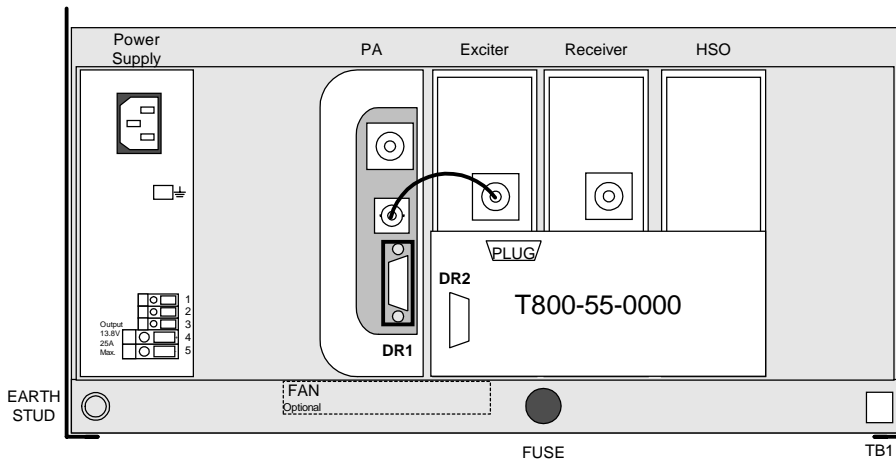   - 25W -   12.75kg
    - 50W -   16.5kg
    - 100W - 16.85kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

Excellence in Radio Communications	HSO	Receiver	Exciter	Power Amplifier	Excellence in Radio Communications	Power Supply

HSO:
- Supply
- 12.8 MHz
- Frequency Adjust
- 10.0 MHz

Receiver:
- Gating Sensitivity
- Gate
- Line level
- Supply
- Monitor Volume
- Off
- On
- Monitor Mute

Exciter:
- On
- Carrier
- Line Sensitivity
- Supply
- Microphone

Power Amplifier:
- Supply
- Low forward power
- High reverse power
- Power

Power Supply:
- Overload
- Standby
- On
- Power

FAN (optional)

| OPTIONAL TRANSMITTER | OPTIONAL BLANK | OPTIONAL BLANK | OPTIONAL TRANSMITTER | OPTIONAL BLANK | | OPTIONAL BLANK |

REAR VIEW

Power Supply | PA | Exciter | Receiver | HSO

Output 13.8V 25A Max.
1 2 3 4 5

DR2

PLUG

T800-55-0000

DR1

EARTH STUD

FAN Optional

FUSE

TB1

OUTPUT ONLY 13.8V MAX 2 AMPS

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-24-0004	RACK, FRAME ONLY, ASSEMBLED	1	SECTION 4
T800-41-0003	GUIDE TRIPLE SERIES// KIT	1	SECTION 4
T800-44-0000	T800 PS GUIDE KIT	1	SECTION 4
T800-45-0000	GUIDE PA 50W SERIES// KIT	1	SECTION 4
T800-40-0001	BLANKING BRACKET / FRONT PANEL	2	SECTION 8
T800-55-0000	BACKPLANE	1	SECTION 5
X800-90-0004	POWER RAIL (STANDARD)	1	SECTION 3

T800-29-0x00

A dual channel rack with 25 Watt maximum output, to interface to Fylde Trunking Controller

Operational Characteristics
- Dual channel
- Up to 25W output
- Speaker / Programming panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
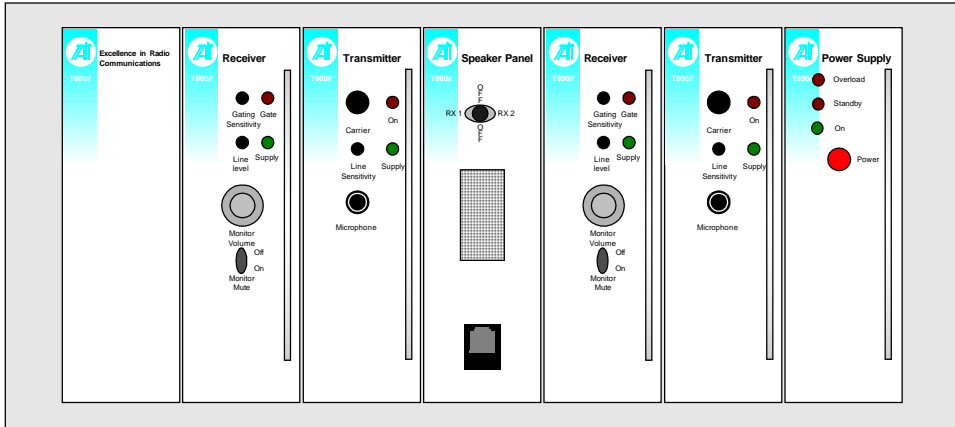- x = 5   AC and External DC and Battery

Configuration Options
- Fans - single or double
- microphone
- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    Height -   222mm
    Width -   482mm
    Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
    25W -   16.05kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.
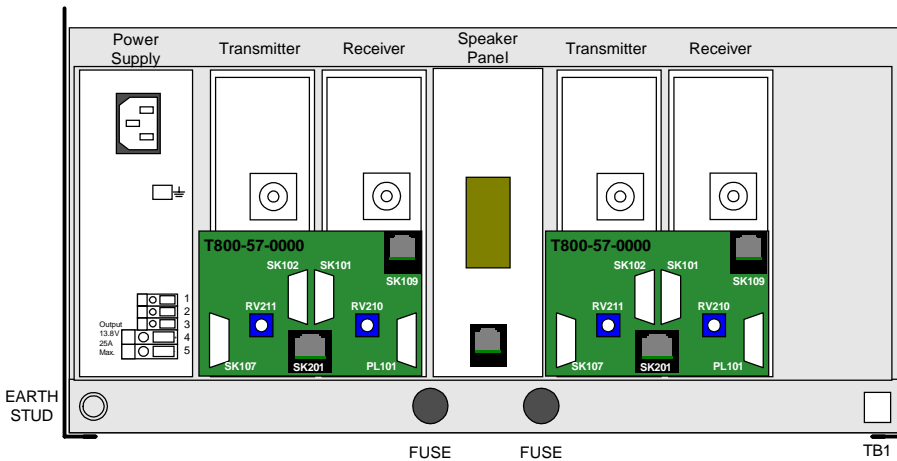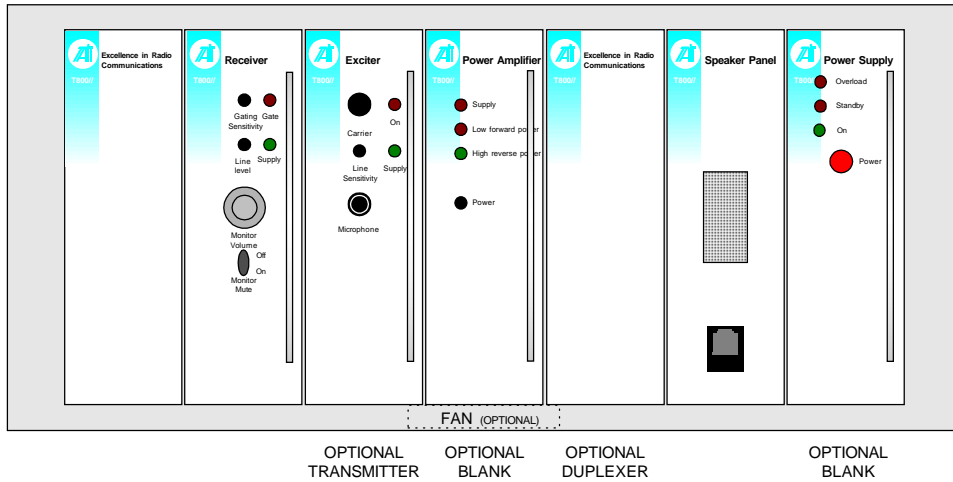
FRONT VIEW

Excellence in Radio Communications

Receiver — Gating Gate Sensitivity · Line level · Supply · Monitor Volume · Off · On · Monitor Mute

Transmitter — Carrier · On · Line Sensitivity · Supply · Microphone

Speaker Panel — Off · RX 1 · RX 2 · Off

Receiver — Gating Gate Sensitivity · Line level · Supply · Monitor Volume · Off · On · Monitor Mute

Transmitter — Carrier · On · Line Sensitivity · Supply · Microphone

Power Supply — Overload · Standby · On · Power

OPTIONAL
DUPLEXER

OPTIONAL
DUPLEXER
BEHIND SPK/PROG
PANEL

OPTIONAL
BLANK

REAR VIEW

| Power Supply | Transmitter | Receiver | Speaker Panel | Transmitter | Receiver |

T800-57-0000 · SK102 · SK101 · SK109 · RV211 · RV210 · SK107 · SK201 · PL101

T800-57-0000 · SK102 · SK101 · SK109 · RV211 · RV210 · SK107 · SK201 · PL101

Output 13.8V 25A. Max. — 1 2 3 4 5

EARTH STUD

FUSE   FUSE

TB1

OUTPUT ONLY 13.8V MAX 2 AMPS

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

ITEMS SUPPLIED AS STANDARD		
PART NUMBER	**DESCRIPTION**	**QTY**
T800-22-0004	RACK, FRAME ONLY, ASSEMBLED	1
T800-41-0002	DOUBLE GUIDE KIT	2
T800-44-0000	T800 PS GUIDE KIT	1
T800-15-0003	SPEAKER/PROGRAM PANEL WITH 3 POSITION SWITCH	1
T800-40-0000	FIXING KIT ONLY	1
T800-40-0001	BLANK PANEL AND FIXING KIT	1
T800-57-0000	BACKPLANE (FYLDE)	2
X800-90-0001	POWER RAIL (STANDARD)	1

Version		Drawn	Checked	Date
2	Drawing name changed	AMM	ABB	26/11/99
1	Original	AMM	ABB	2/8/99

TITLE: RACK, DUAL 2x25W, (FYLDE

DRAWING: T800-29-0x00 RACKFRAME

T800-29-0x01

A single channel rack with 100 Watt maximum output, to interface to Fylde Trunking Controller

Operational Characteristics
- Single channel
- Up to 100W output
- Speaker / Programming panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only
- x = 1   External DC only
- x = 2   AC and External DC
- x = 3   AC and Battery
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery

Configuration Options
- Fans - single or double
- microphone
- DC converter

Mechanical Characteristics
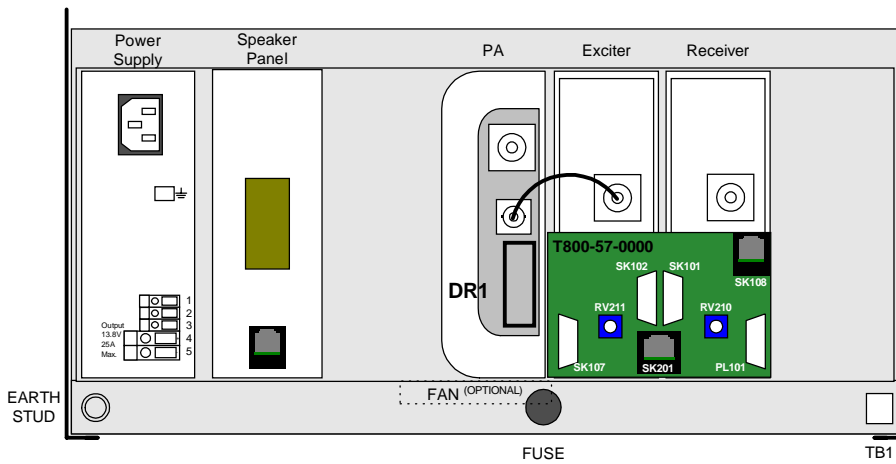- 5 Rack Units x 19" rack to house up to 7 modules
- Size
    Height -   222mm
    Width -   482mm
    Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
    25W -   10.7kg
    50W -   14.45kg
    100W -   14.8kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW

Excellence in Radio Communications

Receiver

Gating Gate Sensitivity

Line level   Supply

Monitor Volume

Off

On

Monitor Mute

Exciter

On

Carrier

Supply

Line Sensitivity

Microphone

Power Amplifier

Supply

Low forward power

High reverse power

Power

Excellence in Radio Communications

Speaker Panel

Power Supply

Overload

Standby

On

Power

FAN (OPTIONAL)

OPTIONAL TRANSMITTER   OPTIONAL BLANK   OPTIONAL DUPLEXER   OPTIONAL BLANK

REAR VIEW

Power Supply   Speaker Panel   PA   Exciter   Receiver

Output 13.8V 25A Max.
1
2
3
4
5

DR1

T800-57-0000
SK102   SK101
SK108
RV211   RV210
SK107   SK201   PL101

REFER TO SECTION 3 OF THE REFERENCE GUIDE FOR POWER RAIL OPTIONS

EARTH STUD

FAN (OPTIONAL)

FUSE

OUTPUT ONLY 13.8V MAX 2 AMPS

TB1

ITEMS SUPPLIED AS STANDARD		
PART NUMBER	**DESCRIPTION**	**QTY**
T800-22-0004	RACK, FRAME ONLY, ASSEMBLED	1
T800-41-0002	DOUBLE GUIDE KIT	1
T800-45-0001	PA (100W) GUIDE KIT	1
T800-44-0000	T800 PS GUIDE KIT	1
T800-15-0000	SPEAKER/PROGRAM PANEL	1
T800-40-0000	FIXING KIT ONLY	1
T800-40-0001	BLANK PANEL AND FIXING KIT	2
T800-57-0000	BACKPLANE (FYLDE)	1
X800-90-0000	POWER RAIL (STANDARD)	1

T800-29-0x02

A dual channel rack with 50 Watt maximum output, to interface to Fylde Trunking Controller.

Operational Characteristics
- Dual channel
- Up to 50W output
- Speaker / Programming panel
- DC line fuse
- Earth stud
- Backplane interface

Power Supply Options
- x = 0   AC only   Not Available
- x = 1   External DC only
- x = 2   AC and External DC   Not Available
- x = 3   AC and Battery   Not Available
- x = 4   External DC and Battery
- x = 5   AC and External DC and Battery Not Available

Configuration Options
- Fans - single or double
- microphone
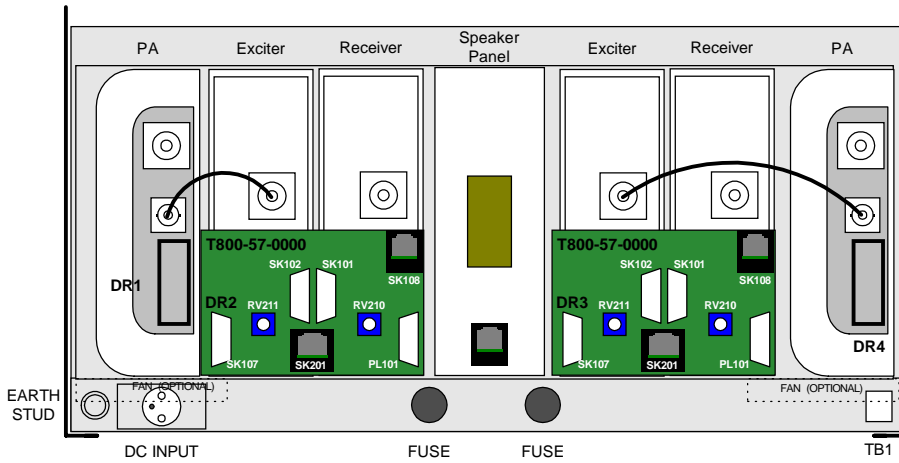- DC converter

Mechanical Characteristics
- 5 Rack Units x 19" rack to house up to 7 modules
- Size
  Height -   222mm
  Width -   482mm
  Depth - 322mm plus 50mm clearance space
- Weight – (rackframe with modules shown)
  50W -   20.7kg

Rack "Items Supplied as Standard" does not include modules other than those listed on the drawing.

FRONT VIEW
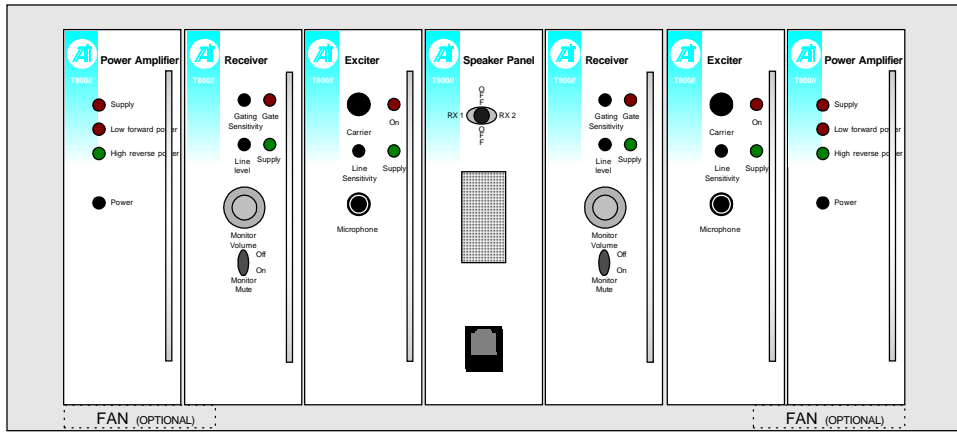
REAR VIEW

REFER TO SECTION 3
OF THE
REFERENCE GUIDE
FOR
POWER RAIL OPTIONS

OUTPUT
ONLY 13.8V
MAX
2 AMPS

ITEMS SUPPLIED AS STANDARD			
PART NUMBER	**DESCRIPTION**	**QTY**	**REFERENCE**
T800-11-0004	RACK, FRAME ONLY, ASSEMBLED, 2 BATTERY BACK-UP	1	SECTION 4
T800-41-0002	DOUBLE GUIDE KIT	2	SECTION 4
T800-45-0000	PA (50W) GUIDE KIT	2	SECTION 4
T800-15-0003	SPEAKER/PROGRAM PANEL WITH 3 POSITION SWITCH	1	SECTION 8
T800-40-0000	FIXING KIT ONLY	1	SECTION 4
T800-57-0000	BACKPLANE (FYLDE)	2	SECTION 5
X800-91-0002	POWER RAIL (STANDARD)	1	SECTION 3

Version		Drawn	Checked	Date
3	Drg name changed	AMM	ABB	26/11/99
2	Drg No changed, Ref added	AMM	ABB	31/8/99
1	Original	AMM	ABB	3/8/99

T800 Series *II*

Conventional Equipment

Reference Guide

T800 *II*

Rack
Power Supply
Options

Power Supply Options

This section details the Power Supply Options for T800 SeriesII Conventional rackframes. The power rails have been standardised to allow versatility in the rack applications.

Not all options are available on every rack. Please contact RSD if you are unsure of the correct option.

Baan Codes

```
X800-90-0000RAIL<=100W,ACfor1supply
X800-91-0000RAIL<=100W,AC+X-DCfor1supply
X800-92-0000RAIL<=100W,ACfor1supply
X800-93-0000RAIL<=100W,AC+BATfor1supply
X800-94-0000RAIL<=100W,X-DC+BATfor1supply
X800-95-0000RAIL<=100W,AC+X-DC+BATfor1supply

X800-90-0001RAIL,2x25W,ACfor2supply
X800-91-0001RAIL,2x25W,AC+X-DCfor2supply
X800-92-0001RAIL,2x25W,ACfor2supply
X800-93-0001RAIL,2x25W,AC+BATfor2supply
X800-94-0001RAIL,2x25W,X-DC+BATfor2supply
X800-95-0001RAIL,2x25W,AC+X-DC+BATfor2supply

X800-90-0002RAIL,2x50W,ACfor2supply
X800-91-0002RAIL,2x50W,AC+X-DCfor2supply
X800-92-0002RAIL,2x50W,ACfor2supply
X800-93-0002RAIL,2x50W,AC+BATfor2supply
X800-94-0002RAIL,2x50W,X-DC+BATfor2supply
X800-95-0002RAIL,2x50W,AC+X-DC+BATfor2supply

X800-90-0003RAIL,COMBI,ACfor2supply
X800-91-0003RAIL,COMBI,AC+X-DCfor2supply
X800-92-0003RAIL,COMBI,ACfor2supply
X800-93-0003RAIL,COMBI,AC+BATfor2supply
X800-94-0003RAIL,COMBI,X-DC+BATfor2supply
X800-95-0003RAIL,COMBI,AC+X-DC+BATfor2supply
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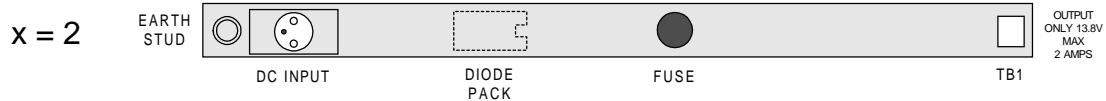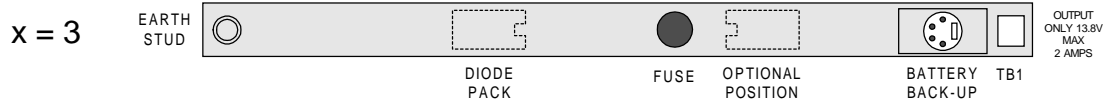
AC POWER SUPPLY ONLY

x = 0 — EARTH STUD — FUSE — TB1 — OUTPUT ONLY 13.8V MAX 2 AMPS

EXTERNAL DC SUPPLY ONLY

x = 1 — EARTH STUD — DC INPUT — FUSE — TB1 — OUTPUT ONLY 13.8V MAX 2 AMPS

AC POWER SUPPLY AND EXTERNAL DC

x = 2 — EARTH STUD — DC INPUT — DIODE PACK — FUSE — TB1 — OUTPUT ONLY 13.8V MAX 2 AMPS

AC POWER SUPPLY AND BATTERY

x = 3 — EARTH STUD — DIODE PACK — FUSE — OPTIONAL POSITION — BATTERY BACK-UP — TB1 — OUTPUT ONLY 13.8V MAX 2 AMPS

EXTERNAL DC AND BATTERY

x = 4 — EARTH STUD — DC INPUT — DIODE PACK — FUSE — OPTIONAL POSITION — BATTERY BACK-UP — TB1 — OUTPUT ONLY 13.8V MAX 2 AMPS

AC POWER SUPPLY EXTERNAL DC AND BATTERY
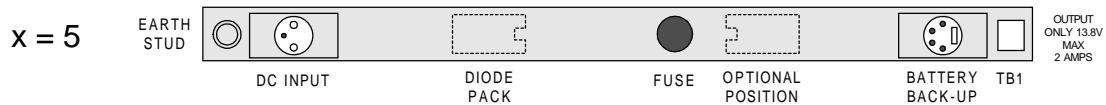
x = 5 — EARTH STUD — DC INPUT — DIODE PACK — FUSE — OPTIONAL POSITION — BATTERY BACK-UP — TB1 — OUTPUT ONLY 13.8V MAX 2 AMPS

TAIT
Radio Communications
Christchurch
New Zealand

Version		Drawn	Checked	Date
2	Diode position changed	AMM	ABB	26/10/99
1	Original	AMM	ABB	8/9/99

TITLE:
X800 - 9x - 0000
POWER RAIL OPTIONS for T800 RACKS

DRAWING: power rails cso.vsd