

Affordable • Compact • High Speed Data

TB7100 base station/repeater

The renowned RF performance of Tait radio infrastructure is now even more affordable through the new TB7100 base station/repeater.

A proven RF platform is at the core of the cost-effective TB7100, which offers continuous duty operation at 25W power output. With two fans for effective cooling it can operate at ambient temperatures of up to 60°C (140°F).

The TB7100 is also an ideal high speed data platform, with data rates of up to 19.2kbps.

The TB7100 is designed for use with an external DC power supply and comes in a 19 inch 1U rack bin, which is also capable of being wall mounted.

Fitted with an optional internal duplexer, the TB7100 is capable of full duplex operation for either a voice or data channel.



TB7100 Specifications*

General

Basic Description	1U Base Station/Repeater
System Compatibility	Conventional FM, MPT 1327 Trunked, Data Systems

RF

	Transmitter Power Rating	
Frequency Range	136-174 MHz	25W
	174-225 MHz	25W
	216-226 MHz	25W
	400-470 MHz	25W
	450-520 MHz	25W
Number of Channels	100	
Channel Spacing	12.5/20/25 kHz	
System Types to Support	Full Duplex Voice TTR & LCB 1200 FFSK & 12K NB, 19.2WB THSD TTR & LCB	
Data Types	FFSK, Tait High Speed Data & 19.2kbps	
Operation Data Modes	CCDI transparent mode	
Sensitivity	-117dBm (typical)	
Selectivity	68dB/73dB/75dB (NB/MB/WB)	
Intermodulation	75dB	
Ultimate Signal to Noise	40dB/41dB/43dB (NB/MB/WB)	
Tx Hum and Noise	-35dB/-39dB/-41dB (NB/MB/WB)	
Conducted Spurious Emissions	<-57dBm (Tx Standby, 9kHz-1GHz) <-36dBm (Tx Active, 0-1GHz) <-30dBm (Tx Active, 1-12.75GHz)	

Audio

	Input	Output
Audio Input Types	600ohm Balanced Unbalanced Microphone	600ohm Balanced Unbalanced Monitor Speaker
Audio Interface Level (for nominal 60% deviation)	Balanced -20 to +6dBm	Balanced -20 to +3dBm
Audio Line Distortion (@ -70dBm)	Unbalanced 220µ V-4.4V ≤2%	Unbalanced 220µ V-4.4Vpp ≤2% (De-emphasised)

Environmental

Operating Temperature	-30°C to +60°C (-22°F to +140°F) at 100% duty cycle
Supply Requirements	10.5-16DC
DC Current	25W TB7100
Low Power Tx	3A (5W)
High Power Tx	6.2A (25W)
Rx (2W Speaker output)	540mA
Rx Muted	280mA

Dimensions (WxDxH)

480x400x44.5mm (18.8x15.7x1.8in)

Weight

6kg (13.2lb)

Options

T809 PSU (88-264 VAC)
Internal Duplexer
Wall Mount Bracket
Microphone

* All specifications are for 400MHz model and are subject to confirmation

Authorised dealer



www.telcomsa.es
91 103 30 00



Tait is your complete supplier of radio communications equipment, with mobile, portable and infrastructure solutions. Tait is renowned for its flexibility, responsiveness and commitment to producing innovative world-class mobile radio communications products.

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

Tait Electronics Ltd is an ISO9001:2000 and ISO 14001:1996 certified supplier.

www.taitworld.com