

# Proven performance and reliablity.

Demonstrating Tait's commitment to trusted TaitNet MPT 1327 technology, the TB8200 is the base station/repeater at the heart of the solution.

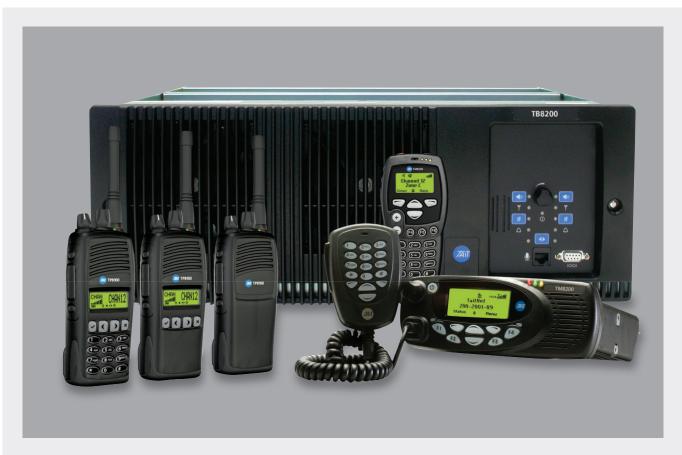


Building on the reliability and performance of the intelligent TB8100, added channel management functionality provides two integrated TaitNet MPT 1327 channels in each base station/repeater.

#### **KEY FEATURES**

- Non-proprietary open standard
- ▶ Seamlessly integrates into TaitNet MPT networks
- ▶ Provides up to two TaitNet MPT 1327 channels in one base station.
- Remote programming and software feature enablers (SFEs) reduce the need for site visits and hardware upgrades
- ▶ Proven RF platform
- ▶ Ethernet system interface enables IP management of communications system
- ▶ SNMP management support option
- ▶ Best-in-class reliability the choice for critical applications
- ▶ Scalable equally suited to single and multi-site systems
- ▶ Smart AC/DC switching to ensure continuity of service
- Built-in test equipment provides self-monitoring with local and remote alarm logging
- ▶ 4-wire/IP
- Covers key frequency bands from 136MHz to 800MHz





### Simplified TaitNet MPT 1327 solution

By combining channel management and base station/repeater functions, the TB8200 simplifies the TaitNet MPT 1327 solution, minimizing system deployment and maintenance costs.

#### **Complete remote operation**

With its many remote monitoring options, the TB8200 is ideal for isolated sites. Systems administrators can manage parameters remotely with the TB8200 configuration tool, minimizing maintenance time and costs.

#### Tough design

Specified to operate continuously at full power, at up to 15,000ft (4,572m) in temperatures as high as 140°F (60°). Large heatsinks and front-to-back fan cooling methods mean that no spacing is required between base stations/repeaters.

#### **Transition to digital**

A common hardware platform means seamless migration from the TB8200 to digital technologies, including DMR (Digital Mobile Radio) and P25.

#### **Tait solution**

Tait offers complete turnkey solutions with a wide variety of mobile and handportable radios, infrastructure products, comprehensive services and established partnerships with many suppliers in the communications industry.





GENERAL					
VHF	Operational Frequency         136-156MHz         148-174MHz         174-193MHz         193-225MHz				
UHF	380-420MHz 400-440MHz 440-480MHz 470-520MHz				
800MHz	Tx 762-776MHz/850-870MHz, Rx 794-824MHz				
Electronic Switching Range	≥2% of centre frequency (eg: 10MHz @ 500MHz)				
Channel Spacing	12.5kHz, 20kHz, 25kHz				
Channel Increment	0.125kHz				
Dimensions (WxDxH)	19 x 15 x 7in (480 x 390 x 180mm) 4U Rack Space				
Weight	Single 5/50W: 45lb (21kg) Single 100W: 47lb (22kg) Dual 5/50W: 61lb (28kg)				
Operational Temperature	-22° to 140°F (-30° to 60°C)				
Description	MPT Controller/Base Station/Repeater				
Frequency Stability	±0.5ppm				
Power Consumption Standby Tx @ 5W Tx @ 50W Tx @ 100W	12V PA 0.81A 2.2A 9.2A	12V PMU 1.2A 2.7A 10.0A 19.2A	<b>24V PMU</b> 0.63A 1.4A 5.4A 10.3A	<b>48V PMU</b> 0.3A 0.65A 2.6A 4.9A	
Standby Tx @ 5W Tx @ 50W Tx @ 100W	110VAC - 49VA 138VA 239VA	240VAC - 119VA 177VA 262VA			
Supply Requirements  Mains  DC	88 to 264V (PFC power factor correction) 12V, 24V, 48V (Nominal +ve or -ve earth)				

## **SPECIFICATIONS**



#### **TRANSMITTER**

**Modulation Limiting** 

12.5kHz ±2.5kHz 20kHz ±4kHz 25kHz ±5kHz

Transmit Rise Time ≤2.5ms

100W Continuous (programmable from 10W to 100W) Transmit Power Rating 50W Continuous (programmable from 5W to 50W)

5W Continuous (programmable from 1W to 5W)

FM Hum and Noise

12.5kHz and 20kHz channels -49.0dB (300Hz - 3kHz [ANSI/TIA]) 25kHz channel -51.5dB (300Hz - 3kHz [ANSI/TIA])

#### **RECEIVER**

Sensitivity <0.25µV (-119dBm) Spurious Responses ≥100dB (ANSI/TIA)

80dB [ETSI] Intermodulation 85dB [ANSI/TIA]

VHF/UHF Selectivity

85dB (NB), 90dB (WB)

Authorized Partners

Tait is your complete supplier of radio communications equipment offering 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.

+Please note that not all frequency bands and power outputs are available in all markets. For further information please check with your nearest Tait office or authorized dealer.

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