

# Proven performance and reliability.

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



#### FEATURES AND BENEFITS

##### **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°C). 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**

	<b>Operational Frequency</b>			
VHF	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 15.2 x 7in (480 x 390 x 180mm) 4U Rack Space (482.6mm x 385mm x 176.8mm)			
Weight	Single 5/50W: 47.4lb (21.5kg) Single 100W: 50.3lb (22.8kg) Dual 5/50W: 63.1lb (28.6kg)			
Operational Temperature	-22° to 140°F (-30° to 60°C)			
Description	MPT Controller/Base Station/Repeater			
Frequency Stability	±0.5ppm			
Power Consumption	<b>12V Pa</b>	<b>12V PMU</b>	<b>24V PMU</b>	<b>48V PMU</b>
Standby	0.81A	1.2A	0.63A	0.3A
Tx @ 5W	2.2A	2.7A	1.4A	0.65A
Tx @ 50W	9.2A	10.0A	5.4A	2.6A
Tx @ 100W	-	25A	13A	6.5A
	<b>110VaC</b>	<b>240VaC</b>		
Standby	25VA	79VA		
Tx @ 5W	49VA	119VA		
Tx @ 50W	138VA	177VA		
Tx @ 100W	325VA	330VA		
Supply Requirements	88 to 264V (with power factor correction)			
Mains	12V, 24V, 48V (Nominal +ve or -ve earth)			
DC				

**TRANSMITTER**

Modulation Limiting	
12.5kHz	±2.5kHz
20kHz	±4kHz UHF only
25kHz	±5kHz
Transmit Rise Time	≤2.5ms
Transmit Power Rating	100W Continuous (programmable from 10W to 100W) 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	<0.25 $\mu$ V (-119dBm)
Spurious Response	≥100dB (ANSI/TIA)
Intermodulation	80dB [ETSI] 85dB [ANSI/TIA]
Selectivity	<b>VHF/UHF</b> 85dB (NB), 90dB (WB)

Authorized Partners

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