

# T800 Series II Reliable High Performance



 $Complete\ Range\ of\ Products\ \bullet\ T800\ Series\ II\ is\ a\ comprehensively\ featured\ range\ of\ conventional$ and MPT 1327 trunked products, specially designed to fulfil the voice and data requirements of fixed radio equipment.

Full Range of Frequencies • High performance modules from 66 to 960MHz, inherent reliability of SMD manufacturing housed in rugged die cast construction make the T800 range ideal for professional applications.

 $Proven\ RF\ Performance\ \bullet\ With\ the\ sensitivity\ required\ for\ the\ top\ of\ a\ remote\ mountain$ and the selectivity for the middle of a crowded urban repeater site, the T800 offers superior RF performance at a cost effective price.

- International Benchmark T800 Series II equipment from Tait Electronics is used in over 80 countries. Behind every module is 30 years of experience in design and manufacture from a company committed to excellence in radio communications.
  - Used by the majority of British Police Forces.
  - Installed in sites from the snow of Antarctica to the sand of the Gobi Desert.







T800SL Base Station





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General Specifications Transmitters/Exciters/PA's Receivers Frequency Range \/HF· 66-88MHz VHF: 66-88MHz 136-174MHz 136-174MHz 220-285MHz 220-285MHz UHF: 330-380MHz UHF: 330-380MHz 400-520MHz 400-520MHz 800-960MHz3 800-960MHz \*1W and 70W Rated Power 25W 50W Continuous Duty 100W Continuous Duty **Channel Spacing** 12.5kHz, 20kHz, 25kHz, 30kHz 12.5kHz, 20kHz, 25kHz, 30kHz No. of Channels 128 Channels serial programmable 128 Channels serial programmable Power Supply Requirements 13.8V / 240V AC or 110V AC 13.8V / 240V AC or 110V AC Transmit 25W 5A, 50W 12A, **Current Consumption** Standby 350mA Standby 150mA **Operating Temperature** +60°C to -30°C +60°C to -30°C Audio Response flat or pre-emphasis/ flat or pre-emphasis/ de-emphasis (6dB/octave) de-emphasis (6dB/octave) **Band Spread** 8MHz 2MHz(80MHz),3MHz (VHF), 5MHz (UHF), 6MHz (800MHz) FM Hum and Noise 55dB(25kHz) 50dB(12.5kHz) 55dB(25kHz) 50dB(12.5kHz) Max Deviation 5kHz Conducted Spurious Emissions -36dBm to 1GHz Audio Line Distortion 2% max 2% max +10dB @600ohms Audio Output Spurious Response Rejection 100dB Selectivity: 90dB Selectivity Intermodulation Intermodulation: 85dB **Technical Compliance** Meets or exceeds: Meets or exceeds: ETS300-086 (RF) ETS300-086 (RF) ETS300-113 (data) ETS300-219 (tone calling) ETS300-219 (tone calling) ETS300-279 (EMC) ETS300-279 (EMC) FCC & RSS requirements FCC & RSS requirements **Dimensions** 183 x 60 x 340mm 183 x 60 x 340mm 7.2"x 2.4"x 13.4 7.2"x 2.4"x 13.4" 50W 183 x 120 x 340mm 7.2"x 4.7"x 13.4" 100W 183 x 180 x 340mm 7.2" x 7.1" x 13.4" Weight 2.1kg (4.6 lb) 5 2kg (11.5 lb) 25W 2.1kg (4.6 lb) 50W 100W 56kg (12.3 lb) Required Rackspace 60/120/180mm of 5U, 483mm Rack 60mm of 5U, 483mm Rack 2 4"/14.7"/7.1" of 5U, 19" Rack 2.4" of 5U, 19" Rack Standard Features CTCSS per channel CTCSS per channel 8 programmable output lines 8 programmable output lines per channel per channel VCO out-of-lock indicator 3 programmable timers (tail,time-out and lock-out) Noise or carrier squelch Voice or data compatible Configurable audio processor Fast key-up option Metering outputs Configurable audio processor RSSI (optional for some Metering outputs models) Dual output stages for reliability (100W PA) Voice or data compatible Versatile rack formats Hand Microphone operation Opto-dc or loopkeying Versatile rack formats Paging board (POCSAG) DCS, Selcall 1, 1.5, 2ppm 1, 1.5, 2ppm Options/Ancillaries T803 Tone Remote / Alarm Monitoring Module T804 Remote Diagnostics and Control T807 Power Supply Unit for 25/50W Repeater T808 Power Supply Unit for 100W Repeater Many rack options to suit a variety of needs Simulcast / Quasi-Sync system modules Paging options also available Typical Performance Figures Specifications are subject to change with measurement standards and without notice and shall not form part of any contract.

Tait is your complete supplier of radio communications equipment, with mobile, portable and infrastructure solutions. Our experience spans 30 years, covering off-the-shelf and customised products, single site systems and complete turnkey systems.

TELORO

ISO 9001

TAIT Electronics Ltd is an ISO 9001 registered supplier. Certificate No.461.