



3W speaker with water shedding grille and active noise cancellation.



Easy-grip control options for volume and channel selection.



Large color screen to keep you fully informed at a glance.

# TP9800 MULTIBAND PORTABLES

# RUGGED, LIGHTWEIGHT, MULTI-AGENCY COOPERATION

### SEAMLESS MULTIBAND PERFORMANCE

The TP9800 Multiband Portable is configurable to operate on any combination of VHF, UHF and 700/800MHz bands. Flexible and simple ordering and deployment of single, dual and multiband operation at time of purchase, or subsequently over the air. Bands are not locked and can be reconfigured.

### **RUGGED, LIGHTWEIGHT DESIGN**

Experience the lightest P25 multiband portable radio on the market with high capacity battery and compact design, providing up to 17 hours of shift life in P25 Phase 2 mode.

To give you maximum reliability, the Tait Tough design is certified IP68 dust and waterproof, IP65 protected from water jets and MIL-STD810G to withstand high and low temperatures, vibration, shock (drop), humidity, salt fog, rain, immersion, sand and dust.

#### MAXIMUM CONNECTIVITY

Connect to the range of networks in current operations or future technology migrations: Conventional Analog, P25
Conventional Digital, P25 Trunking Phase 1 and Phase 2, with integrated GNSS option for Location Services, Bluetooth® for wireless voice accessories, and WiFi OTAP.

Analog signaling options include Two Tone decode, MDC1200, PL (CTCSS), DPL (DCS), and Selcall.

#### **EXCEPTIONAL AUDIO**

Hear and be heard, even in the most extreme environments, with a powerful 3W speaker, and dual microphone active noise cancellation that removes background noise in both analog and digital modes.

#### **ENHANCED WORKER SAFETY**

Man Down and Lone Worker features are included as standard to send automated safety alerts and can combine with location data and Tait GeoFencing software options to guide an effective response. The programmable Emergency key can also send these safety alerts manually.

#### **ERGONOMIC USER EXPERIENCE**

The TP9800 is designed for easy use in emergency situations, with ergonomic, easy-grip control options; four programmable function keys and a three-way selector; and a range of accessories to tailor your experience.

## COMPATIBLE BATTERIES & ACCESSORIES

The TP9800 shares common batteries, chargers and audio accessories that are compatible with all current TP9000 series portables.

#### **PROVEN P25 INTEROPERABILITY**

Enable multi-agency response and multivendor compatibility for voice, data and encryption methods – the TP9800 is approved by the TIA-102 P25 Compliance Assessment Program.

### SECURE COMMUNICATION

Ensure only authorized personnel can hear your communications with end-toend encryption management options, FIPS 140-2 certified module, AES, DES and ARC4 algorithms, Tait EnableProtect Key Fill Device and Key Management Facility.



## **TP9800** MULTIBAND PORTABLES



### **TECHNICAL SPECIFICATIONS**

GENERAL								
Frequency stability		±0.5ppm (-22	2°F to +140°F/-30°C to +60°C	(2)				
Channels/zones			2,000 channels/100 zones					
Talk groups			oups, up to 2,000 members to	otal				
Scan groups			300 with up to 10 members each, maximum of 2,000 members total					
Bluetooth®		Supported						
Encryption (via Key-Fill D	Device or OTAR)		Supported in P25 Operation (FIPS Certified 256-bit AES, DES, ARC4)					
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OTAP		Supported (P25 Trunking, WiFi) – Requires Tait EnableFleet						
Dimensions (with High Capacity battery)		1.77 x 2.56 x	1.77 x 2.56 x 5.71in / 45 x 65 x 145mm (DxWxH excluding knobs and antenna)					
Weight (with High Capacity battery)		13.42oz / 382	13.42oz / 382g (without antenna)					
Supported Languages		English, Gern	English, German, French, Spanish, Portuguese, Czech, Polish, Bulgarian					
Channel Spacing		6.25/12.5/15/	6.25/12.5/15/20/25/30kHz <sup>2</sup>					
Frequency increment		2.5/3.125/5/6	2.5/3.125/5/6.25kHz					
Radio Operating temperature		-22°F to +140	-22°F to +140°F (-30°C to +60°C)					
Vocoder type		AMBE +2™	AMBE +2™					
Audio Output		3W						
Signaling options (analog) MDC1200 encode and decode, Two Tone decode, PL (CTCSS), DPL (DC					SS), DPL (DCS), Selcall			
Water and dust protection	n	IP68 & IP65	IP68 & IP65					
MILITARY STANDARDS	810G <sup>7</sup>							
Applicable MIL-STD	Method	Procedure	Applicable MIL-STD	Method	Procedure			
Low pressure	500.5	2	Humidity	507.5	2			
High temperature	501.5	1, 2	Salt fog	509.5	1			
Low temperature	502.5	1, 2	Sand & Dust	510.5	1, 2			
Temperature shock	503.5	1	Immersion	512.5	1			
Solar radiation	505.5	1	Vibration	514.6	1			
Rain	506.5	1, 3	Shock	516.6	1, 4, 5, 6			
BATTERY <sup>3</sup>								
	do Chift Life (E/E	(00) with High Con	encity bottony		17 hours			
			with High Capacity battery					
Analog and P25 Phase 1,	/ FDMA Mode Si	TIFE (5/5/90) WIT	th High Capacity battery		13 hours			
CHARGER								
Charger options (Li-Ion)	Charger options (Li-Ion) Fast desktop single charger, 6-way multi charger, vehicle charger and battery only vehicle charger							
REGULATORY DATA	USA (FCC)	CANADA (IS	SED) EUROPE/UK (CE)	AUSTRALIA/NEW	ZEALAND (AS/NZ)			
VHF (136-174MHz)	~	<b>✓</b>	<b>✓</b>	<b>~</b>				
UHF (378-520MHz)	<b>~</b>	<b>✓</b>	<b>✓</b>	<b>y</b> 4				
700/800MHz	<b>~</b>	<b>~</b>	<b>✓</b>	<b>~</b>				
900MHz <sup>6</sup>								
5 5 5 1111 12	<b>~</b>	<b>✓</b>						



### **TP9800** MULTIBAND PORTABLES



### **TECHNICAL SPECIFICATIONS** continued

TRANSMITTER	VHF	UHF	700/800MHz	900MHz <sup>6</sup>			
(Note – Radio can be configured to operate on any combination of the supported bands)							
Frequency range	136-174MHz	378-520MHz	757-870MHz	896-941MHz			
Output power (nom)	6W <sup>1</sup> , 5W, 3W, 2W, 1W	5W <sup>1</sup> , 4W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W			
Modulation limiting							
12.5/15kHz channel	±2.5kHz	±2.5kHz	±2.5kHz	±2.5kHz			
25/30kHz channel <sup>2</sup>	±5kHz	±5kHz	±5kHz	±5kHz			
FM hum and noise							
12.5kHz channel	-45dB	-45dB	-40dB	-40dB			
25kHz channel <sup>2</sup>	-48dB	-48dB	-45dB	-45dB			
Radiated and conducted emissions	-75dBc	-72dBc	-75dBc	-75dBc			
Audio response (analog)	+1/-3dB	+1/-3dB	+1/-3dB	+1/-3dB			
Audio distortion (analog @1kHz, 60% mod) <sup>5</sup>	2%	2%	2%	2%			

VHF	UHF	700/800MHz	900MHz <sup>6</sup>				
(Note – Radio can be configured to operate on any combination of the supported bands)							
136-174MHz	378-520MHz	757-776MHz, 851-870MHz	935-941MHz				
0.22uV (-120dBm)	0.22uV (-120dBm)	0.22uV (-120dBm)	0.22uV (-120dBm)				
0.2uV (-121dBm)	0.2uV (-121dBm)	0.2uV (-121dBm)	0.2uV (-121dBm)				
75dB	75dB	70dB	70dB				
60dB	60dB	60dB	60dB				
70dB	70dB	65dB	65dB				
75dB	80dB	70dB	70dB				
45dB	45dB	45dB	45dB				
1.5%	1.5%	1.5%	1.5%				
-50dB	-50dB	-45dB	-40dB				
	nny combination of the su 136-174MHz 0.22uV (-120dBm) 0.2uV (-121dBm) 75dB 60dB 70dB 75dB 45dB 1.5%	nny combination of the supported bands)  136-174MHz  0.22uV (-120dBm)  0.2uV (-121dBm)  75dB  60dB  70dB  75dB  75dB  80dB  45dB  45dB  1.5%  1.5%	136-174MHz 378-520MHz 757-776MHz, 851-870MHz 0.22uV (-120dBm) 0.22uV (-120dBm) 0.22uV (-120dBm) 0.2uV (-121dBm) 0.2uV (-121dBm) 75dB 75dB 70dB 60dB 60dB 60dB 65dB 70dB 70dB 65dB 75dB 80dB 70dB 45dB 45dB 45dB 1.5% 1.5% 1.5%				

#### NOTE:

- 1. Very high power only available in USA/Canada.
- 2. Wideband operation is not available in the USA in some bands.
- 3. Battery performance is dependent on frequency, temperature, and operational configuration.
- 4. The UHF band radios are approved for use in Citizen Band in Australia and New Zealand when programmed to meet the requirements of AS/NZS4365.
- 5. Rated audio (for performance testing) 0.5W.
- 6. 900MHz singleband operation only, requires matching 900MHz singleband antenna.
- 7. Designed to meet MIL Standards. Compliance pending.

Tait has taken every care in compiling this brochure, but we're always innovating and therefore changes to our models, designs, technical specifications, visuals and other information included in this brochure could occur. For the most up-to-date information and for a copy of our terms and conditions please visit our website www.taitcommunications.com

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