

KEEPING TEAMS CONNECTED *SAFE & PRODUCTIVE*

DMR

TAIT
TOUGH



TP93T5 **TAIT OPENTRUNK PORTABLE**

Tait OpenTrunk solutions keep teams connected, safe and productive across busy sites and wide areas. This Tait Tough portable offers reliable, easy-to-use communication with a balance of features and affordability.

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communications

TP93T5 SIMPLE, AFFORDABLE DMR TIER 3

The **TP93T5** is available in the Americas and Europe.

ADVANCED WORKER SAFETY

Man Down and Lone Worker are standard features that can 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.

ENHANCED CONNECTIVITY

Connect to the range of networks you may encounter in current operations or future technology migrations: Conventional Analog, MPT1327, DMR Tier 2 Conventional, DMR Tier 3 Trunking, with integrated GNSS option for outdoor location tracking and Bluetooth® for indoor location and wireless voice accessories.

FREEDOM OF CHOICE

Tait proudly supports and contributes to the DMR open standard ecosystem. Open standards enable multivendor compatibility to give you more freedom of choice and value for money throughout the life of your investment.

EASY FLEET MANAGEMENT

As your business grows or your needs change you can easily adapt your communications to improve your operations. When connected to Tait EnableFleet you can easily change radio settings or upgrade to the latest software features with wireless Over The Air Programming (OTAP) via DMR Tier 3 networks.

SECURE COMMUNICATION

DMR trunking uses authentication to prevent unauthorized network access and includes tools to manage lost or stolen radios. Encryption options are available and the Tait EnableProtect Advanced System Key allows only authorized personnel access radio software and configuration.



RUGGED TAIT TOUGH DESIGN

The TP93T5 is certified IP68 dust and waterproof, IP65 protected from water jets and rated MIL-STD810H to withstand high and low temperatures, vibration, (drop tests), humidity, salt fog, and more.

ERGONOMIC USER EXPERIENCE

The TP93T5 is designed for easy use in emergency situations. There are two programmable function keys – one colored orange that can be assigned as an emergency call button. It has a multiline display with menu navigation and a continuous rotation top selector.

TP93T5

SPECIFICATIONS

GENERAL		
Bluetooth®	Supported (for audio accessories and iBeacon reporting)	
Encryption	ARC4, DES	
Over The Air Programming (OTAP)	Supported (via DMR Tier 3 network, required Tait EnableFleet)	
Dimensions (DxWxH)		
With Li-Ion Slimline battery	1.61 x 2.56 x 5.35in (41 x 65 x 136mm) excluding knobs	
With Li-Ion High Capacity battery	1.77 x 2.56 x 5.35in (45 x 65 x 136mm) excluding knobs	
Weight		
With Li-Ion Slimline battery	11.46oz (325g) – no antenna	
With Li-Ion High Capacity battery	13.52oz (385g) – no antenna	
Battery shift life (DMR mode 5/5/90)	16 hours with Slimline battery, 27 hours with High Capacity battery	
Supported Languages	English (default), Czech, French, German, Spanish, Polish, Portuguese, Russian	
Water and dust protection	IP68 & IP65	
Channel Spacing ¹	6.25/12.5/15/20/25/30kHz	
Frequency increment/channel step	2.5/3.125/5/6.25kHz	
Frequency stability	±0.5ppm (-22°F to 140°F/-30°C to 60°C)	
Operating temperature	-22°F to 140°F (-30°C to 60°C)	
ESD rating	+/-4kV contact discharge and +/-8kV air discharge	
Rated audio	0.5W	
Speaker rating	2W	
Air interface standard:	DMR: ETSI TS 102 361-1 V2.6.1, -2 V2.5.1, -3 V1.3.1, -4 V1.12.1	
General system design standard	ETSI TR 102 398 V1.5.1	
Signaling options (Analog)	MDC1200, encode and decode, Two tone decode, PL (CTCSS), DPL (DCS), Selcall	
Vocoder type	AMBE +2™	
Packet Data	½ Rate, ¾ Rate, Full rate, Single Slot	
TRANSMITTER	VHF	UHF
Frequency range	VHF: 136-174MHz (B1)	UHF: 378-470MHz (HK), 450-520MHz (H7)
Output power (nom)	VHF: 5W, 3W, 2W, 1W	UHF: 4W, 2.5W, 2W, 1W
FM hum and noise (Analog)	-40dB (12.5kHz), -45dB (25kHz)	
Conducted/radiated emissions	-36dBm	
Audio response	+1/-3dB	
Audio distortion (Analog)	2.5% @1kHz, 60% Deviation	
Modulation limiting ¹	12.5/15kHz channel and 25/30kHz channel	
RECEIVER	VHF	UHF
Frequency range	VHF: 136-174MHz (B1)	UHF: 378-470MHz (HK), 450-520MHz (H7)
Sensitivity (typical)	VHF: 5W, 3W, 2W, 1W	UHF: 4W, 2.5W, 2W, 1W
Analog (12dB SINAD)	-120dBm/0.22µV	
DMR (1% BER (ETS300-113))	-119dBm (0.25µV)	
DMR (5% BER)	-123dBm (0.16µV)	
Intermodulation rejection	75dB (EIA603E), 70dB (ETS 300-113)	
FM hum and noise (Analog)	-40dB (12.5kHz), -45dB (25kHz)	
Selectivity (Analog)		
EIA603E (2 Tone)	VHF: 52dB (12.5kHz)	UHF: 50dB (12.5kHz)
VHF: 73dB (25kHz)	UHF: 70dB (25kHz)	
ETS 300-086	62dB (12.5kHz), 73dB (25kHz)	
Audio distortion (rated audio)	2%	

TP93T5

SPECIFICATIONS

MILITARY STANDARDS 810C, D, E, F AND G					
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
REGIONAL AVAILABILITY AND REGULATORY COMPLIANCE					
Available in USA (FCC), Canada (ISED) and Europe (CE)					

¹ Wideband operation is not available in the USA in some bands

AUDIO ACCESSORY OPTIONS



Speaker Microphones



Earpieces



Headsets



Bluetooth® PTT & Earpiece

BATTERY CHARGING OPTIONS



Single Charger



6 Bay Charger



Vehicle Charger

All TP9000 series accessories are compatible with the TP93T5. Refer to the **Tait Portable Options and Accessories** catalog for more information.