

KEEPING TEAMS CONNECTED SAFE & PRODUCTIVE

TAIT OPENTRUNK
PORTABLE RADIO

DMR

TAIT
TOUGH



Tait OpenTrunk

**ESSENTIAL
TEAM COMMS**

tait
communications

TAIT TP93T5 PORTABLE **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

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

TAIT TP93T5 PORTABLE TECHNICAL SPECIFICATIONS

GENERAL INFORMATION

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 5.35 in (41 x 65 x 136 mm) excluding knobs
With Li-Ion High Capacity battery	1.77 x 2.56 x 5.35 in (45 x 65 x 136 mm) excluding knobs
Weight	
With Li-Ion Slimline battery	11.46 oz (325 g) – no antenna
With Li-Ion High Capacity battery	13.52 oz (385 g) – 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), German, French, Spanish, Portuguese, Czech, Russian, Polish
Water and dust protection	IP68 & IP65
Channel Spacing¹	6.25/12.5/15/20/25/30 kHz
Frequency increment/channel step	2.5/3.125/5/6.25 kHz
Frequency stability	±0.5 ppm (-22°F to 140°F/-30°C to 60°C)
Operating temperature	-22°F to 140°F (-30°C to 60°C)
ESD rating	+/-4 kV contact discharge and +/-8 kV air discharge
Rated audio	0.5 W
Speaker rating	2 W
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

Frequency range	VHF: 136-174 MHz (B1) UHF: 378-470 MHz (HK), 450-520 MHz (H7) 757-870 MHz (K5)
Output power (nom)	VHF: 5 W, 3 W, 2 W, 1 W UHF: 4 W, 2.5 W, 2 W, 1 W
FM hum and noise (Analog)	-40 dB (12.5 kHz), -45 dB (25 kHz)
Conducted/radiated emissions	-36 dBm
Audio response	+1/-3 dB
Audio distortion (Analog)	2.5% @1 kHz, 60% Deviation
Modulation limiting¹	12.5/15 kHz channel and 25/30 kHz channel

RECEIVER

Frequency range	VHF: 136-174 MHz (B1) UHF: 378-470 MHz (HK), 450-520 MHz (H7) 757-776 MHz (K5) 850-870 MHz (K5)
Sensitivity (typical)	
Analog (12 dB SINAD)	-120 dBm (0.22 µV)
DMR (1% BER (ETS300-113))	-119 dBm (0.25 µV)
DMR (5% BER)	-123 dBm (0.16 µV)
Intermodulation rejection	75 dB (EIA603E), 70 dB (ETS 300-113)
FM hum and noise (Analog)	-40 dB (12.5 kHz), -45 dB (25 kHz)
Selectivity (Analog)	
EIA603E (2 Tone)	VHF: 52 dB (12.5 kHz) UHF: 50 dB (12.5 kHz) VHF: 73 dB (25 kHz) UHF: 70 dB (25 kHz)
ETS 300-086	62 dB (12.5 kHz), 73 dB (25 kHz)
Audio distortion (rated audio)	2%

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

TAIT TP93T5 PORTABLE TECHNICAL 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), Europe (CE)

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.

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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