

Tait Open2

ESSENTIAL
TEAM COMMS

tait communications

TAIT OPEN2 PORTABLE RADIOS

THE ESSENTIALS, DONE WELL

With loud, clear audio and instant push-to-talk connection, Tait Open2 portables are a great choice for teams looking to streamline their communications with reliable two-way radios.

The TO2-P10 is the most affordable option for teams needing essential functionality in a high-quality DMR Tier 2 device. For those who would appreciate a color screen and keypad, the TO2-P55 provides additional functionality with built-in Bluetooth® and GPS.

Whether you need simple radio-to-radio communication or extended coverage through a base station, Tait Open2 portables are built to perform.

PROTECTING WORKER SAFETY

Lone Worker is a standard feature that can send automated safety alerts and can combine with location data. The programmable emergency button can also send these safety alerts manually.

FREEDOM OF CHOICE

Tait proudly supports and contributes to the Digital Mobile Radio (DMR) open standard ecosystem. Open standards enable multivendor compatibility, giving you more freedom of choice and value for money throughout the life of your investment.

RUGGED, COMPACT DESIGN

Tait Open2 portables are certified IP68 dust and waterproof and built to deliver reliable performance year after year. Their compact design makes them comfortable to hold, wear and use, suitable for industries ranging from hospitality to construction.

For advanced capabilities including DMR Tier 3 trunking, Intrinsically Safe options or other frequency bands, please explore the **TP9000 range**.

FEATURE HIGHLIGHTS	TO2-P10	TO2-P55
Rugged design	•	•
IP68 dust and water-proof	•	•
Emergency button	•	•
Emergency calls and alerts	•	•
Lone Worker for peace of mind	•	•
2 programmable buttons	•	•
DMR Tier 2 conventional digital	•	•
Conventional analog	•	•
Voice privacy with ARC4 encryption	•	•
Full shift battery life	•	•
Compatible with Tait EnableFleet (wired)	•	•
Antenna rings for color options	•	•
Color display		•
User friendly keypad		•
Bluetooth®		•
Built-in GNSS (e.g. GPS)		•



TO2-P10 TO2-P55

TAIT OPEN2 PORTABLE RADIOS

TECHNICAL SPECIFICATIONS

GENERAL INFORMATION	
Channels	256 (16 channels per zone)
Zones	16 Zones
Bluetooth®	5.0 (TO2-P55 only)
Encryption	ARC4
Fleet management	Tait EnableFleet (wired)
Dimensions (D x W x H)	1.36 x 2.50 x 4.76 in (34.5 x 63.5 x 121 mm) excluding antenna and knobs
Weight	TO2-P10: 11.99 oz (340 g); TO2-P55: 12.17 oz (345 g) – radio, batt, antenna, belt clip
Battery shift life (DMR mode 5/5/90)	>15.5 hrs (2000 mAh)
Battery shift life (analog mode 5/5/90)	>11 hrs (2000 mAh)
Supported languages	English, Spanish, French, German, Portuguese
Water and dust protection	IP68
Channel spacing	12.5 / 25 kHz
Frequency increment/channel step	12.5 kHz
Frequency stability	+/- 1.5 ppm (-22°F to 140°F / -30°C to +60°C)
Operating temperature	Radio: -22°F to 140°F (-30°C to +60°C) Battery: -4°F to 140°F (-20°C to +60°C)
ESD rating	+/-4 kV contact discharge; +/-8 kV air discharge
Speaker output	1 W rated, 2 W maximum
Air interface standard:	DMR: ETSI TS 102 361-1, TS 102 361-2, TS 102 361-3
Status call	TO2-P55 pre-canned via menu
Text messages	TO2-P55 pre-canned via menu
Location services	TO2-P55: GPS, GLONASS
Signaling options (analog)	CTCSS/DCS
Vocoder type	AMBE+2
Scan groups	32 (up to 15 channels each)

TRANSMITTER	VHF [1]	UHF
Frequency range	136-174 MHz	400-480 MHz
Output power (nom)	5 W, 3 W, 2 W, 1 W	4 W, 2.5 W, 2 W, 1 W
FM hum and noise (analog)		
12.5 kHz channel	-40 dB	-40 dB
25 KHz	-45 dB	-45 dB
Conducted/radiated emissions	< -36 dBm	< -36 dBm
Pre-emphasis audio response	+1 / -3 dB	+1 / -3 dB
Audio distortion (analog)	2.5% @ 1 kHz, 60% deviation	2.5% @ 1 kHz, 60% deviation
Adjacent channel power (ACP)	60 dB @ 12.5 kHz, 70 dB @ 25 kHz	
RECEIVER	**VHF [1]**	**UHF**
Frequency range	136-174 MHz	400-480 MHz
Sensitivity (typical)		
Analog (12 dB SINAD)	-120 dBm (0.22 µV)	-120 dBm (0.22 µV)
DMR 5% BER	Typ -122 dBm (0.18 µV)	Typ -122 dBm (0.18 µV)
Intermodulation rejection		
EIA603E	70 dB	70 dB
ETS 300-113	65 dB	65 dB
FM hum and noise (analog)	-40 dB (12.5 kHz), -45 dB (25 kHz)	-40 dB (12.5 kHz), -45 dB (25 kHz)
Selectivity (analog)		
EIA603E (1 Tone)	60 dB (12.5 kHz), 70 dB (25 kHz)	60 dB (12.5 kHz), 70 dB (25 kHz)
ETS 300-086	60 dB (12.5 kHz), 70 dB (25 kHz)	60 dB (12.5 kHz), 70 dB (25 kHz)
Blocking	90 dB	90 dB
Audio distortion (rated audio)	2%	2%

1. VHF available in a future release. Specifications subject to change.

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TECHNICAL SPECIFICATIONS

MILITARY STANDARDS 810H

Applicable MIL-STD	Method	Procedure	Applicable MIL-STD	Method	Procedure
Low pressure	500.6	2	**Humidity**	507.6	2
High temperature	501.7	1, 2	**Salt fog**	509.7	1
Low temperature	502.7	1, 2	**Sand & Dust**	510.7	1, 2
Temperature shock	503.7	1	**Immersion**	512.6	1
Solar radiation	505.7	1	**Vibration**	514.8	1
Rain	506.6	1, 3	**Shock**	516.8	1, 4, 5, 6

REGIONAL AVAILABILITY AND REGULATORY COMPLIANCE

Available in USA (FCC), Canada (ISED), Europe (CE) and Australia/New Zealand

AUDIO ACCESSORY OPTIONS



Speaker Microphones



Earpieces



Headsets



Bluetooth® PTT & Earpiece

BATTERY CHARGING



Single Charger



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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Quality Management ISO 9001

Environment Management ISO 14001:2015

Occupational Health & Safety Management ISO 45001:2018