

# SIMPLE. DURABLE. WORKS WITH YOU.

TAIT OPEN2  
PORTABLE RADIOS

DMR



**Tait** Open2

**ESSENTIAL  
TEAM COMMS**

**taït**  
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.

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

For advanced capabilities including DMR Tier 3 trunking, Intrinsically Safe options or other frequency bands, please explore the [TP9000 range](#).

# TAIT OPEN2 PORTABLE RADIOS

## TECHNICAL SPECIFICATIONS

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

TRANSMITTER	VHF <sup>1</sup>	UHF
<b>Frequency range</b>	136-174 MHz	400-480 MHz
<b>Output power (nom)</b>	5 W, 3 W, 2 W, 1 W	4 W, 2.5 W, 2 W, 1 W
<b>FM hum and noise (Analog)</b>		
<b>12.5 kHz channel</b>	-40 dB	-40 dB
<b>25 KHz</b>	-45 dB	-45 dB
<b>Conducted/radiated emissions</b>	< -36 dBm	< -36 dBm
<b>Pre-emphasis audio response</b>	+1 / -3 dB	+1 / -3 dB
<b>Audio distortion (Analog)</b>	2.5% @ 1 kHz, 60% deviation	2.5% @ 1 kHz, 60% deviation
<b>Adjacent Channel Power (ACP)</b>	60 dB @ 12.5 kHz, 70 dB @ 25 kHz	

RECEIVER	VHF <sup>1</sup>	UHF
<b>Frequency range</b>	136-174 MHz	400-480 MHz
<b>Sensitivity (typical)</b>		
<b>Analog (12 dB SINAD)</b>	-120 dBm (0.22 µV)	-120 dBm (0.22 µV)
<b>DMR 1% BER (ETS300-113)</b>	-119 dBm (0.25 µV)	-119 dBm (0.25 µV)
<b>DMR 5% BER</b>	Typ -121 dBm (0.20 µV)	Typ -121 dBm (0.20 µV)
<b>Intermodulation rejection</b>		
<b>EIA603E</b>	70 dB	70 dB
<b>ETS 300-113</b>	65 dB	65 dB
<b>FM hum and noise (Analog)</b>	-40 dB (12.5 kHz), -45 dB (25 kHz)	-40 dB (12.5 kHz), -45 dB (25 kHz)
<b>Selectivity (Analog)</b>		
<b>EIA603E (1 Tone)</b>	60 dB (12.5 kHz), 70 dB (25 kHz)	60 dB (12.5 kHz), 70 dB (25 kHz)
<b>ETS 300-086</b>	60 dB (12.5 kHz), 70 dB (25 kHz)	60 dB (12.5 kHz), 70 dB (25 kHz)
<b>Blocking</b>	90 dB	90 dB
<b>Audio distortion (rated audio)</b>	2%	2%

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

# TAIT OPEN2 PORTABLE RADIOS TECHNICAL SPECIFICATIONS

## MILITARY STANDARDS 810H <sup>2</sup>

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

2. Designed to meet MIL standards. Compliance pending.

### AUDIO ACCESSORY OPTIONS



Speaker Microphones



Earpieces



Headsets

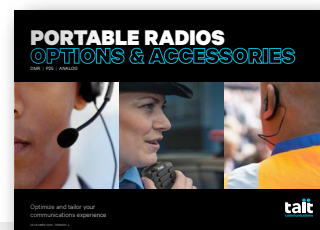


Bluetooth<sup>®</sup> PTT  
& Earpiece

### 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](http://www.taitcommunications.com)

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