

# SIMPLE. RELIABLE. WORKS WITH YOU.

TAIT OPEN2  
MOBILE RADIO

DMR



**Tait** Open2

**ESSENTIAL  
TEAM COMMS**

**tait**  
communications

## TAIT OPEN2 MOBILE RADIOS

# RELIABLE CONNECTION WHEREVER YOU GO

Designed for vehicle use, Tait Open2 mobile radios deliver loud, clear audio and instant push-to-talk connection to help teams stay reliably connected on the move.

The Tait Open2 mobile (TO2-M55) is ideal for teams needing essential functionality in a high-quality DMR Tier 2 device.

### PROTECTING WORKER SAFETY

Lone Worker is a standard feature that can send automated safety alerts and can combine with location data. The programmable emergency key 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, USER-FRIENDLY DESIGN

Tait Open2 mobiles are certified IP54 dust and water resistant and built to deliver reliable performance year after year. A color display and user-friendly controls make this radio a pleasure to operate.

FEATURE HIGHLIGHTS	TO2-M55
Rugged design	•
IP54 dust and water resistant	•
Color display	•
User friendly controls	•
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	•
Compatible with Tait EnableFleet (wired)	•
Optional GNSS (e.g. GPS) hardware	•



TO2-M55



# TAIT OPEN2 MOBILE RADIOS

## TECHNICAL SPECIFICATIONS

### GENERAL INFORMATION

<b>Networks</b>	2 (1 DMR, 1 Analog)
<b>Channels</b>	1024
<b>Zones</b>	32
<b>Scan groups</b>	10 (up to 32 channels each)
<b>WLAN (Wi-Fi) option</b>	No
<b>Bluetooth® option</b>	No
<b>Talk groups</b>	240 (includes individual contacts/call list)
<b>Dimensions (D x W x H)</b>	10.87 x 6.3 x 2.10 in (276 x 160 x 53 mm)
<b>Weight</b>	2.4 lb (1.1 kg)
<b>Supported languages</b>	English, Dutch, Spanish, French, Portuguese
<b>Channel spacing</b>	12.5 / 25 kHz
<b>Frequency increment/channel step</b>	12.5 kHz
<b>Frequency stability</b>	+/-1 ppm (-22°F to 140°F / -30°C to +60°C)
<b>Operating temperature</b>	-22°F to 140°F (-30°C to +60°C)
<b>Water and dust protection</b>	IP54
<b>ESD rating</b>	+/- 4 kV contact discharge, +/- 8 kV air discharge
<b>Rated audio</b>	5 W internal speaker or 10 W external speaker
<b>Power supply</b>	+13.8 V +/-20%
<b>Air interface standard</b>	DMR: ETSI TS 102 361-1, TS 102 361-2, TS 102 361-3
<b>Location services</b>	GPS
<b>Signaling options (Analog)</b>	CTCSS/DCS
<b>Vocoder type</b>	AMBE+2

TRANSMITTER	VHF <sup>1</sup>	UHF
<b>Frequency range</b>	136-174 MHz	400-480 MHz
<b>DC input power</b>	DC +13.8 V +/- 20%	
<b>Output power</b>		
<b>25 W models</b>	for EUR, AUS, NZ	for EUR, AUS, NZ
<b>High power models</b>	50 W, 25 W, 10 W, 5 W	40 W, 25 W, 10 W, 5 W
<b>Input current @ 13.8 V</b>		
<b>Standby current</b>	0.3 A	0.3 A
<b>25 W setting</b>	5.5 A	5.5 A
<b>High power setting</b>	10.5 A	9.0 A
<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>Adjacent channel power – static (Analog)</b>		
<b>@ 12.5 kHz offset</b>	-60 dB	-60 dB
<b>@ 25 kHz offset</b>	-70 dB	-70 dB

TRANSMITTER <sup>cont.</sup>	VHF <sup>1</sup>	UHF
<b>Adjacent channel power – static (DMR)</b>		
<b>ETS 300-113</b>	12.5 kHz: 60 dB	12.5 kHz: 60 dB
<b>Conducted/radiated emissions</b>		
	25 W: -36 dBm	25 W: -36 dBm
	50 W: -20 dBm	40 W: -20 dBm
<b>Pre-emphasis audio response (Analog)</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>Duty cycle</b>		
<b>25 W</b>	2 min TX, 4 min Rx for 8 hrs @ 140°F (+60°C)	
<b>30 / 35 / 40 / 50 W</b>	1 min TX, 4 min Rx for 8 hrs @ 140°F (+60°C)	
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>	-123 dBm (0.16 μV)	-123 dBm (0.16 μV)
<b>Intermodulation rejection</b>		
<b>EIA603E</b>	65 dB	65 dB
<b>ETS 300-113</b>	65 dB	65 dB
<b>FM hum and noise (Analog)</b>	12.5 kHz: -40 dB 25 kHz: -45 dB	12.5 kHz: -40 dB 25 kHz: -45 dB
<b>Selectivity (Analog)</b>		
<b>EIA603E (2 Tone)</b>	12.5 kHz: 52 dB 25 kHz: 73 dB	12.5 kHz: 50 dB 25 kHz: 70 dB
<b>ETS 300-086</b>	12.5 kHz: 62 dB 25 kHz: 73 dB	12.5 kHz: 62 dB 25 kHz: 73 dB
<b>Blocking</b>	84 dB	84 dB
<b>Audio distortion (rated audio)</b>	2.00%	2.00%

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

# TAIT OPEN2 MOBILE 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	Vibration	514.8	1
Solar radiation	505.7	1	Shock	516.8	1, 4, 5, 6
Rain	506.6	1, 3			

## 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.

For advanced capabilities including DMR Tier 3 trunking, remote mount options or other frequency bands, please explore the [TM9000 range](#).



TCH3 local mount control head with keypad microphone



TCH6 remote mount control head with keypad and standard microphone



TCH4 remote mount control head with keypad and standard microphone



HHCH handheld control head with keypad

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)

The words "Tait", "TAIT AXIOM", and the "Tait" logo are trademarks of Tait International Limited.

Copyright © 2026 Tait International Limited Tait\_B\_Open2 Mobiles\_v2 June 2026

