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	
Networks	2 (1 DMR, 1 Analog)
Channels	1024
Zones	32
Scan groups	10 (up to 32 channels each)
WLAN (Wi-Fi) option	No
Bluetooth® option	No
Talk groups	240 (includes individual contacts/call list)
Dimensions (D x W x H)	6.93 x 6.30 x 2.05 in (176 x 160 x 52 mm)
Weight	2.4 lb (1.1 kg)
Supported languages	English, Dutch, Spanish, French, Portuguese
Channel spacing	12.5 / 25 kHz
Frequency increment/channel step	12.5 kHz
Frequency stability	+/-1 ppm (-22°F to 140°F / -30°C to +60°C)
Operating temperature	-22°F to 140°F (-30°C to +60°C)
Water and dust protection	IP54
ESD rating	+/- 4 kV contact discharge, +/- 8 kV air discharge
Rated audio	5 W internal speaker or 10 W external speaker
Power supply	10.8–16 VDC
Air interface standard	DMR: ETSI TS 102 361-1 , TS 102 361-2, TS 102 361-3
Location services	GPS
Signaling options (analog)	CTCSS/DCS
Vocoder type	AMBE+2

TRANSMITTER	VHF [1]	UHF
Frequency range	136-174 MHz	400-480 MHz
Output power		
25 W models	for EUR, AUS, NZ	for EUR, AUS, NZ
High power models	50 W, 25 W, 10 W, 5 W	40 W, 25 W, 10 W, 5 W
Input current @ 13.8 V		
Standby current	0.3 A	0.3 A
25 W setting	5.5 A	5.5 A
High power setting	10.5 A	9.0 A
FM hum and noise (analog)		
12.5 kHz channel	-40 dB	-40 dB
25 KHz	-45 dB	-45 dB
Adjacent channel power – static (analog)		
@ 12.5 kHz offset	-60 dB	-60 dB
@ 25 kHz offset	-70 dB	-70 dB

TRANSMITTER cont.	VHF [1]	UHF
Adjacent channel power – static (DMR)		
ETS 300-113	12.5 kHz: 60 dB	12.5 kHz: 60 dB
Conducted/radiated emissions		
	25 W: -36 dBm	25 W: -36 dBm
	50 W: -20 dBm	40 W: -20 dBm
Pre-emphasis audio response (analog)	+1 / -3 dB	+1 / -3 dB
Audio distortion (analog)	2.5% @ 1 kHz, 60% deviation	2.5% @ 1 kHz, 60% deviation
Duty cycle		
25 W	2 min TX, 4 min Rx for 8 hrs @ 140°F (+60°C)	
30 / 35 / 40 / 50 W	1 min TX, 4 min Rx for 8 hrs @ 140°F (+60°C)	

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 1% BER (ETS300-113)	-119 dBm (0.25 µV)	-119 dBm (0.25 µV)
DMR 5% BER	-123 dBm (0.16 µV)	-123 dBm (0.16 µV)
Intermodulation rejection		
EIA603E	65 dB	65 dB
ETS 300-113	65 dB	65 dB
FM hum and noise (analog)	12.5 kHz: -40 dB 25 kHz: -45 dB	12.5 kHz: -40 dB 25 kHz: -45 dB
Selectivity (analog)		
EIA603E (2 Tone)	12.5 kHz: 52 dB 25 kHz: 73 dB	12.5 kHz: 50 dB 25 kHz: 70 dB
ETS 300-086	12.5 kHz: 62 dB 25 kHz: 73 dB	12.5 kHz: 62 dB 25 kHz: 73 dB
Blocking	84 dB	84 dB
Audio distortion (rated audio)	2.00%	2.00%

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

TAIT OPEN2 MOBILE RADIOS

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	**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

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

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Quality Management ISO 9001

Environment Management ISO 14001:2015

Occupational Health & Safety Management ISO 45001:2018