

ENHANCED TEAM COMMS



Tait OpenTrunk


**SIMPLE. AFFORDABLE
FUTURE PROOF.**

tait
communications



KEEPING YOU SAFE AND ON-MISSION

Unleash your team's potential with fit-for-purpose, critical communications solutions from Tait Communications.



For more than 50 years, Tait Communications has been designing, delivering and supporting critical communications networks for public safety, transportation, mining, oil, and gas, and utilities customers around the world.

Tait Communications helps you stay safe and on mission when the heat is on. From comprehensive radio networks with advanced data capabilities, to support and managed services, you can trust Tait. Built with Kiwi ingenuity in Christchurch, New Zealand, we put your safety at the top of our agenda day in, day out.

We believe we can make the world a safer, better and more efficient place through our commitment to open standards, interoperability and better safety outcomes.

Tait solutions are customizable, versatile, flexible and built for every challenge. We uphold the principle of our founder, Sir Angus Tait:

**“ IF IT CAN SAVE
A LIFE, MAKE IT
TOUGH ENOUGH
TO SURVIVE
ANYTHING.**

WHY CHOOSE TAIT OPENTRUNK?

Tait OpenTrunk delivers enhanced team communications in a simple, future-proof solution.

SAFER, MORE PRODUCTIVE TEAMS

Tait OpenTrunk provides enhanced communication capabilities to keep personnel safe, including pre-emption and call interrupt for emergencies, Man Down, Location Services and Tait GeoFencing.

FLEXIBLE AND FUTURE PROOF

Tait solutions can be tailored to suit your needs and are designed to evolve as your operation grows and changes over time. Tait OpenTrunk solutions easily scale from single site to wide area communications to provide the capacity and coverage you need.

SIMPLE AND AFFORDABLE

Tait OpenTrunk solutions are designed to be easy to install, use, and maintain, with transparent pricing that keeps you free from unexpected costs.

SECURITY AND NETWORK MANAGEMENT

Advanced security features such as authentication protect your staff and sensitive information, while network management capabilities make it easy to resolve issues and modify the network if needs change over time.

SUPPORT FOR SHARED SPECTRUM

Tait OpenTrunk supports shared control channel operation for regions with spectrum-constrained customers, as well as dedicated control channel operation.

TAIT OPENTRUNK SOLUTIONS CAN INCLUDE:

- » Portable radios & accessories, including Bluetooth®
- » Mobile radios
- » Repeaters for scalable coverage & capacity from 1-16 sites
- » Worker Safety Automation (Man Down, Lone Worker)
- » Location Services options (outdoor & indoor)
- » Dispatch console options
- » Over The Air Programming
- » System monitoring & support options

WHY CHOOSE DMR OPEN STANDARD SOLUTIONS?

Digital Mobile Radio (DMR) is an open standard that enables a multivendor ecosystem of compatible equipment and applications.

FREEDOM OF CHOICE, VALUE FOR MONEY

Open standards protect your freedom to choose the vendors, devices and applications that best meet your needs, delivering value for money from competitive procurement and throughout the life of your investment.

DMR TIER 2 AND TIER 3 STANDARDS

Tait provides a range of solutions for the two professional tiers defined by the DMR standards:

- » Tier 2 conventional
- » Tier 3 trunking

In DMR Tier 2 conventional systems, radio users must know which channel they need, manually select it and wait if the channel is busy.

In DMR Tier 3 trunked systems users are automatically assigned the first available channel, which is ideal for busy networks with multiple work groups. DMR Tier 3 systems also enable a range of advanced functionality to effectively manage sophisticated voice and data features.

Over many years, Tait has earned a reputation for genuine commitment to standards-based solutions that benefit our customers. Tait OpenTrunk is based on the DMR Tier 3 open standard, enabling compatibility with products from other vendors that follow the same standard.

Tait has been designing, deploying and supporting DMR Tier 3 solutions since 2012 and continues to innovate to deliver more for our customers.

Tait OpenDMR



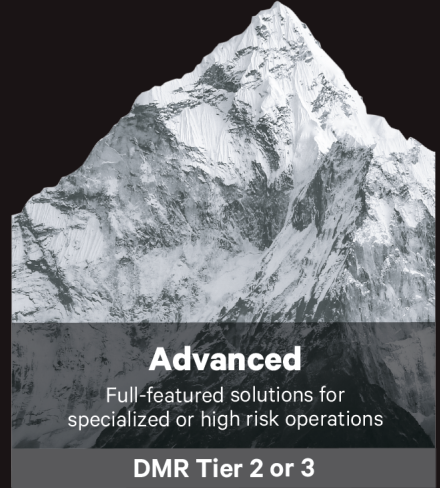
Essential
Reliable solutions for small and medium operations
DMR Tier 2 Conventional

Tait Open2



Enhanced
High capacity solutions for small and medium operations
DMR Tier 3 Trunking

Tait OpenTrunk



Advanced
Full-featured solutions for specialized or high risk operations
DMR Tier 2 or 3

Tait OpenPeak

Teams across a wide range of industries choose Tait OpenTrunk for effective communication solutions, including:



TAIT OPENTRUNK SOLUTIONS OPEN ECOSYSTEM

Tait OpenTrunk supports a range of compatible applications to help you connect with and manage your workforce, enabled by the DMR standard Application Interface Specifications (AIS).

LOCATION SERVICES OPTIONS

Tait provides solutions for both outdoor and indoor Location Services.

Outdoor Location

Choose from a range of compatible mapping applications using the open standard DMR AIS interface. Tait OpenTrunk portables and mobiles have a built in GNSS receiver and antenna.

Tait GeoFencing Option:

Location based workflow automation

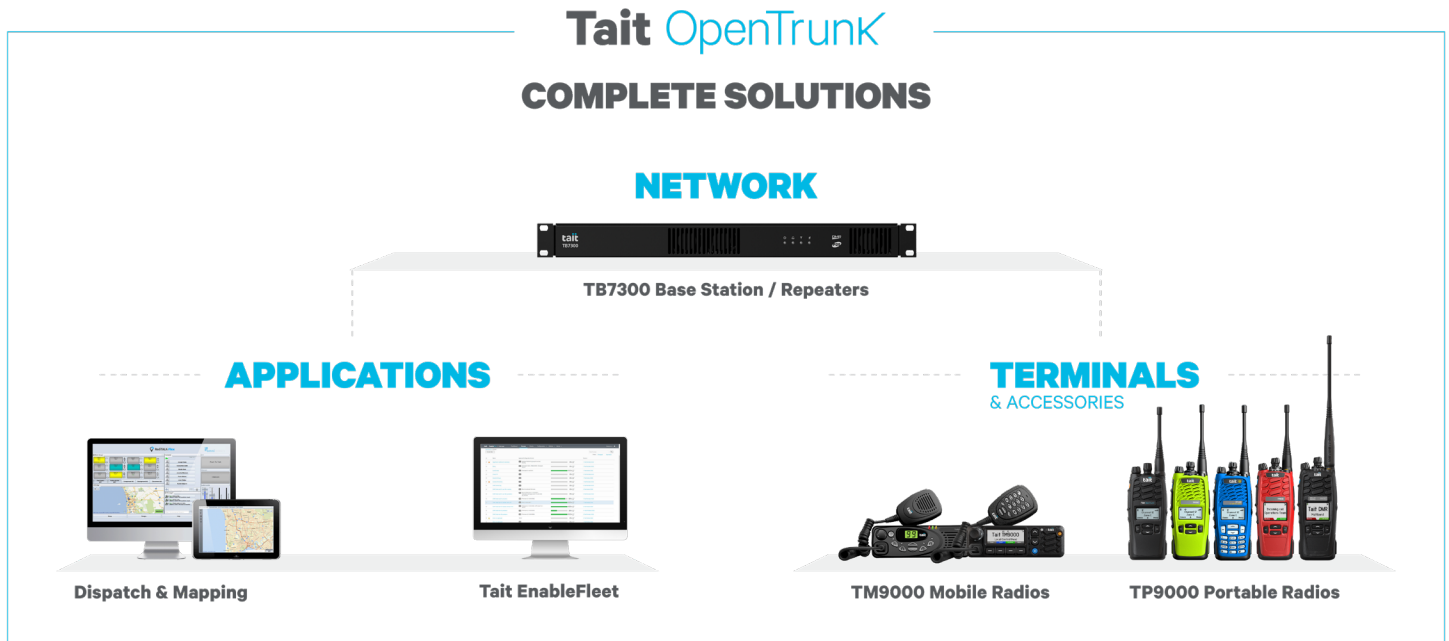
Location data triggers pre-configured actions in a radio, such as changing channels or networks, activating Lone Worker Mode, alerting control room staff when workers enter a hazardous area, or alerting workers to required actions for the area they've entered.

Indoor Location Option

A iBeacon is a low cost, low power Bluetooth® device that can be easily installed at indoor location checkpoints such as walls and doorways. The iBeacons continuously broadcast a signal that can be detected by Tait radios. When a Tait portable radio is within proximity of an iBeacon a location update will be sent over the Tait network to a mapping application.

EASY FLEET MANAGEMENT OPTIONS

As your business grows or your needs change you can easily adapt your communications to improve your operations. 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).



TAIT OPENTRUNK SOLUTIONS **PORTABLE RADIOS**

Available in North America and Europe, the TP93T5 is ideal for Tait OpenTrunk solutions. This Tait Tough portable is built to last, with an excellent balance of features and affordability. It is a great choice for organizations seeking easy to use, reliable communications.

- › Tait Tough design & quality
- › IP68 dust and water proof
- › Multiline display with menu navigation
- › 2 programmable function buttons
- › Continuous rotation top selector
- › 5 W VHF, 4 W UHF
- › 2 W speaker
- › Bluetooth®
- › Worker Safety Automation with Man Down and Lone Worker features
- › Location Services (outdoor & indoor)
- › Tait GeoFencing option
- › DMR Tier 3 license included

All Tait 9000 series radios and accessories enabled for DMR Tier 3 operation are compatible with Tait OpenTrunk (including in shared control channel mode) if more options are required.



TP93T5





TAIT OPENTRUNK SOLUTIONS **AUDIO ACCESSORY OPTIONS**

The right audio accessories can help you do your job more safely and effectively.

Whether your team operates in a particularly noisy environment, or has a need for covert communications, Tait offers a range of audio accessories to make sure voice calls get through loud and clear.



Headsets



Bluetooth® PTT & Earpiece



Speaker Microphones



Earpieces

BATTERY CHARGERS



Single Charger



6 Bay Charger



Vehicle Charger

Refer to the [Tait Portable Options and Accessories](#) catalog for more information.

All Tait 9000 series radios and accessories enabled for DMR Tier 3 operation are compatible with Tait OpenTrunk (including in shared control channel mode) if more options are required.

TAIT OPENTRUNK SOLUTIONS **MOBILE RADIOS**

The TM9315 is a proven mobile radio that provides high powered coverage for vehicle or desktop communications. This reliable radio combines a simple, easy to use interface with the enhanced capabilities of DMR Tier 3 trunking.

- › 2-digit display with scrolling selector
- › 4 programmable function keys
- › 50 W VHF, 40 W UHF
- › 3W speaker built-in, optional 15 W rugged external speaker
- › Worker Safety Automation with Lone Worker feature
- › Location Services options (outdoor)
- › Tait GeoFencing option

All Tait 9000 series radios and accessories enabled for DMR Tier 3 operation are compatible with Tait OpenTrunk (including in shared control channel mode) if more options are required.



TM9315



HIGHLY FLEXIBLE, SCALABLE SYSTEMS

Tait OpenTrunk can be deployed as a single site system and can scale cost-effectively up to 16 sites.

As teams spread out and radio use increases, communications systems need to support both wider coverage and higher call volumes. Without the right infrastructure, coverage gaps and busy channels can limit coordination and access to timely support.

MORE CAPACITY AND COVERAGE

The TB7300 base station offers great value in a small package with its scalability and industry-leading performance. In DMR Tier 3 systems it supports both dedicated and shared control channel operation, delivering flexible deployment options to meet diverse operational needs.

For clients requiring higher power output or different power input options, the TB9400 can be used.

SIMPLIFIED UI

Tait OpenTrunk makes network management easy with a clean, intuitive interface. It streamlines everyday management tasks to keep teams focused on what matters.

ADVANCED SECURITY

The Tait node enables advanced security features, protecting staff and sensitive information. Authentication and registration ensure only authorized devices can access the system, while stun and revive functions let organizations quickly disable and restore lost radios.



IDEAL FOR HIGH-CAPACITY SINGLE SITES



SCALABLE MULTISITE WIDE AREA COVERAGE



TB7300

TAIT OPENTRUNK SOLUTIONS **HIGHLY FLEXIBLE, SCALABLE SYSTEMS**

SYSTEM CONTROL OPTIONS

When used in a Tait OpenTrunk system, the TB7300 base station supports two options for the deployment of a node:

- › Base station node
- › Server node

For Tait OpenTrunk systems with 1-3 sites, essential network functionality can be hosted directly on Tait base stations with a base station node. This eliminates the need for an external server, making the solution simpler and more affordable.

For more complex Tait OpenTrunk systems, or those with 4-16 sites, a server node is an effective solution. It enables more channels per site, voice recording and more concurrent conversations to easily handle higher traffic levels across many sites.

Both node deployment options support dedicated and shared control channel operation.

SYSTEM MONITORING & SUPPORT OPTIONS

Tait OpenTrunk offers network management and reporting capabilities, providing clear visibility into your communications network. This gives you the insight to resolve problems fast, track usage trends, and make confident decisions about your communications.

Self-monitoring Software Options

- › Tait EnableMonitor
- › Tait EnableInsight

Tait supports SNMP v3 to connect to other monitoring applications.

Support & Managed Services

- › Tait Assurance: Extended warranty for your devices and software and includes online assistance
- › Tait Advantage: Extended warranty, technical support, remote diagnostics, break/fix support
- › Tait Manage: 24x7 system monitoring and proactive support from Tait staff and your Tait authorized dealer



DMR TIER 3 SYSTEM FEATURE COMPARISON

The table below shows how Tait OpenTrunk compares to Tait OpenPeak—our advanced, full-featured DMR solution.

FEATURES	Tait OpenTrunk		Tait OpenPeak
	BASE STATION NODE	SERVER NODE	
RF channel capacity	9	48	1000
Site capacity	3	16	250
Node capacity	1 + 1 HA	1 + 1 HA	20
Base station node	•	x	x
Remote log in on base station	•	•	•
Access to node records	•	•	•
Statistic records	•	•	•
DMR Tier 3 control channel	•	•	•
Fleet Management	• (Single fleet)	• (Single fleet)	•
Shared control channel support	•	•	x
TSCC hibernation	•	•	x
TSCC rotation	•	•	x
High Availability (redundant node)	•	•	•
Talk-groups	•	•	•
Caller ID	•	•	•
Emergency call pre-emption	•	•	•
Simulcast	x	x	•
Subscriber roaming	•	•	•
Four access priority levels	•	•	•
Terminal authentication	•	•	•
Device registration & authentication	•	•	•
Registration based group calls	•	•	•
Essential site assignment	x	x	•
Stun (selective radio inhibit)	•	•	•
Call queuing	•	•	•
Dynamic re-grouping	•	•	•
Location services	•	•	•
Location services - fast polling	x	•	•
Console connection	•	•	•
Open Standard Application Interface	AIS, SIP	AIS, SIP, G.711	AIS, SIP, G.711
Further Application Interfaces	DIP	DIP	DIP
OTAP support (not with shared control channel)	•	•	•
Terminal to Terminal Encryption	•	•	•
Audio De/Encryption support on node	x	ARC4, DES	ARC4, DES, AES
Voice Recording	x	•	•
Monitoring API	•	•	•
Temporary traffic mode	•	•	•

DMR TIER 3 SYSTEM FEATURE COMPARISON continued

FEATURES	Tait OpenTrunk		Tait OpenPeak
	BASE STATION NODE	SERVER NODE	
Call Options			
Emergency calls	•	•	•
Broadcast calls	•	•	•
Priority calls	•	•	•
Divert own call	•	•	•
Status call	•	•	•
Text messaging	•	•	•
Group calls	•	•	•
Individual calls private	•	•	•
Individual calls to PSTN/PABX	x	•	•

TAIT OPENTRUNK SOLUTIONS TP93T5 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

REGIONAL AVAILABILITY & REGULATORY COMPLIANCE

Available in USA (FCC), Canada (ISED), and Europe (CE)

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%

MILITARY STANDARDS 810C, D, E, F & G

Applicable MIL-STD	Method	Procedure
Low pressure	500.5	2
High temperature	501.5	1, 2
Low temperature	502.5	1, 2
Temperature shock	503.5	1
Solar radiation	505.5	1
Rain	506.5	1, 3
Humidity	507.6	2
Salt fog	509.5	1
Sand & Dust	510.5	1, 2
Immersion	512.5	1
Vibration	514.6	1
Shock	516.6	1, 4, 5, 6

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

TAIT OPENTRUNK SOLUTIONS

TB7300 TECHNICAL SPECIFICATIONS

GENERAL INFORMATION

Frequency stability	± 0.5 ppm
Channels	4,000
Channel spacing	12.5 kHz and 25 kHz ¹ in analog 12.5 kHz provides 2 TDMA voice or data channels (6.25 kHz equivalent) in DMR mode
Frequency increment/channel step	VHF 2.5/3.125 kHz (or multiples of), UHF 5/6.25 kHz
External frequency reference	10 MHz/12.8 MHz (auto detect)
DMR Packet data	½ Rate, ¾ Rate, Full rate, Single Slot
Dimensions (HxWxD)	1U Rack Space, 1.7 x 19 x 15.8 in (44 x 483 x 400 mm)
Weight	AC: 17.2 lb (7.8 kg) DC: 14.8 lb (6.7 kg)
Operating temperature	-22° to +140°F (-30° to +60°C)
Power Supply	AC: 120 V to 230 V AC 50/60 Hz DC: 13.8 V Typical (11–15 VDC range) ²
Connectors	Transmitter N-type female Receiver BNC female External reference frequency input BNC female 1 PPS input BNC female Network ethernet port RJ45 Serial port RJ12 Analog line and I/O connector 25-way D-range AC input IEC connector DC input Screw terminal
Modulation types	4FSK, FM, C4FM
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

TRANSMITTER

Output power (100% duty cycle)	VHF: Programmable 2–50 W UHF: Programmable 2–40 W
Modulation fidelity	(TIA-102) <2%
Adjacent channel power	12.5kHz static 60 dB, complies with EN 300 113 v2.2.1 (DMR)
Conducted spurious emissions	VHF <-36 dBm 9 kHz to 1 GHz and <-30 dBm 1 GHz to 4GHz UHF <-36 dBm 30 MHz to 1 GHz and <-30 dBm 1 GHz to 4 GHz/12.75 GHz
Power Consumption	Standby DC: 0.83 A, 11.5 W @ 13.8 V AC 20 W @ 120/230 V Tx @ 50 W DC: 9.6 A, 133 W @ 13.8 V AC 200 W @ 120/230 V

RECEIVER

Radiated spurious emissions EIA-603-D	< -57 dBm EIRP to 1 GHz
Conducted spurious emissions	< -90 dBm to 2 GHz
DMR Sensitivity	-122 dBm (0.18 µV) @ 5% BER
DMR Unfaded sensitivity ETS 300 113	Typical: -122 dBm (0.18 µV) @ 1% BER Guaranteed: -120 dBm (0.22 µV) @ 1% BER
DMR Selectivity ETS 300 113 @ 1% BER	≥ 82 dB (VHF) ≥ 79 dB (UHF)
DMR Intermodulation response attenuation	≥ 78 dB @ 1% BER unfaded
DMR Blocking rejection > 1 MHz	100 dB @ 1% BER

FREQUENCY BANDS

Frequency	Range	Tait Band	Configuration
VHF	136–174 MHz	B1	50 W ²
UHF	400–470 MHz	H5	40 W ²
	470–520 MHz	H3	40 W ²

REGIONAL AVAILABILITY & REGULATORY COMPLIANCE

Regulatory USA (CFR 47), Canada (RSS-119)

1. When P25/AS-IP capable firmware is loaded (not available with DMR/Analog firmware).
2. Please check the specification manual for the exact value tolerance.

WE GO BEYOND FOR A SAFER WORLD.

**CONTACT YOUR LOCAL DEALER
FOR MORE INFORMATION
TAITCOMMUNICATIONS.COM/CONTACT**

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.

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Quality
Management
ISO 9001



Environment
Management
ISO 14001:2015



Occupational
Health & Safety
Management
ISO 45001:2018

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