

Tait DMR Infrastructure Catalog

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- ▶ **TN9300 Core Network**
- ▶ **Base Stations (TB7300, TB9400, TB9300, TO2-B50)**
- ▶ **Accessories and Spares**

PREFACE

Please read before using this product catalog.

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Scope:

This product catalog outlines the Tait product range.

Custom product and non-standard equipment is not listed. Please contact your Tait representative if you require information on any product not listed within this book.

Product Status:

Every care has been taken to assure that the products meet the respective regulatory requirements. However, Tait does not warrant that all products meet specific country requirements.

If you have any questions regarding product suitability please contact your Tait representative.

Terms and Conditions of Sale:

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Update and Changes:

The information within the product catalog is subject to change without notice and shall not form part of any contract. This information is issued for guidance purposes only. Please note that not all frequency bands and power outputs are available in all markets.

Compliance:

Not all products have compliance in all regions/countries. Please check the Tait Product Specification sheet or contact your Tait Representative for further information.

NOTE:

Please, refer to [One Tait Dealer Program](#) (OTDP) "Configuration and Estimate" tool to select the right modules, firmware and licenses.

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Tait OpenDMR Solutions

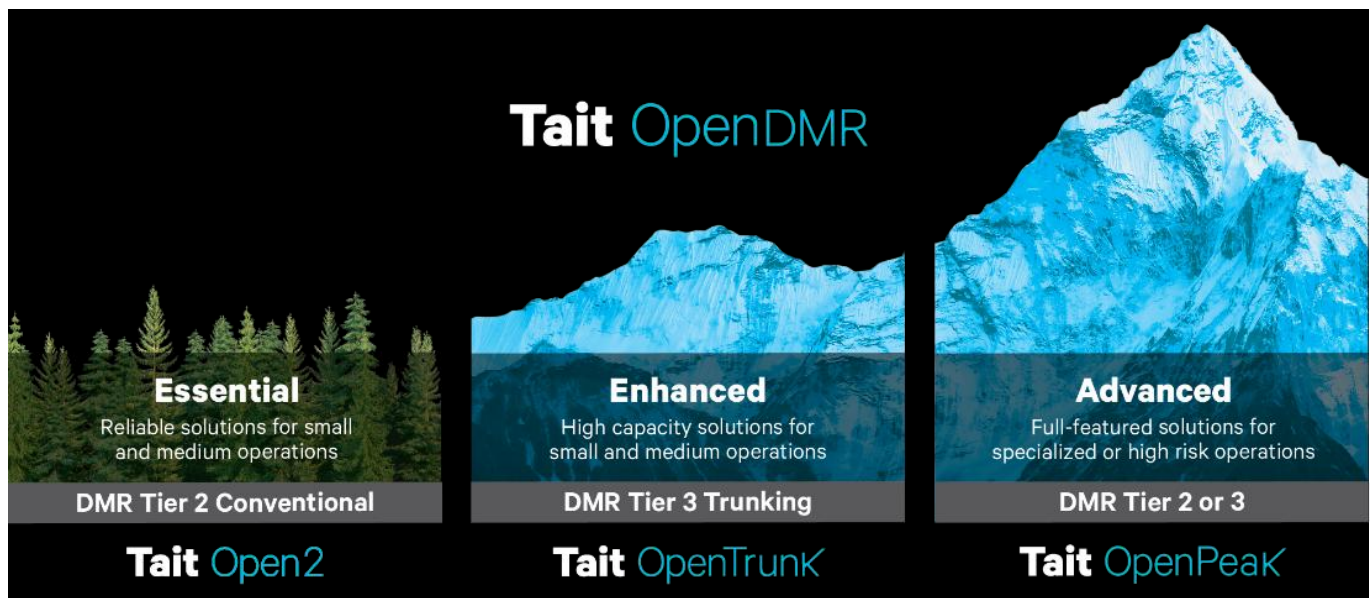
Tait provides a range of solutions for the two professional tiers defined by the DMR standards:

- Tier 2 Conventional (Tait Open2 and Tait OpenPeak)
- Tier 3 Trunking (Tait OpenTrunk and Tait OpenPeak)

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.

Tait OpenDMR is the overarching brand representing the complete Tait portfolio of Digital Mobile Radio (DMR) solutions.



Tait DMR Tier 3 Solutions

Tait OpenTrunk

Systems supporting 1-16 sites

Tait OpenTrunk, introduced in mid-2025, provides the enhanced capabilities of DMR Tier 3 trunking in a simple, affordable solution for small and medium sized organizations.

It is scalable to provide capacity and coverage where they are needed for smooth and effective operations, including operation using shared channels.

Tait OpenTrunk can be used for any industry and is ideal for Enterprise customers.

Tait OpenTrunk systems are upgradable to Tait OpenPeak if more advanced capabilities are required.

Tait OpenPeak

Systems supporting 1-250 sites

Tait OpenPeak is an advanced, full-featured DMR Tier 3 trunking solution, available and enhanced since 2012.

Built on Tait's long-standing expertise in critical communications and trusted by industries such as utilities, mining, oil & gas, and public safety, Tait OpenPeak delivers the performance and reliability demanded in mission-critical environments.

Tait OpenPeak solutions can support simulcast operation for maximum spectrum efficiency and integrate SCADA systems.

Tait DMR Tier 2 Solutions

Tait Open2

Systems supporting 1-100 sites

For many years, conventional Tait DMR Tier 2 networks have provided organizations with exceptional communications capabilities for critical applications.

With Tait Open2, Tait now offers the ideal DMR Tier 2 solution for enterprise customers who can rely on Tait's proven quality, open standards, and customer-oriented solutions with the utmost confidence. Our offering provides greater capacity, lower total cost of ownership, and can be part of a solution ecosystem in conjunction with third-party products and solutions.

Our Enterprise Tait Open2 portfolio delivers reliable, cost-effective digital communications for professional users who need clear voice, efficient data, and robust connectivity. Built on the ETSI DMR Tier 2 standard, this portfolio ensures interoperability, scalability, and enhanced performance for business-critical operations.

Tait OpenPeak (DMR Tier 2)

Systems supporting 1-100 sites

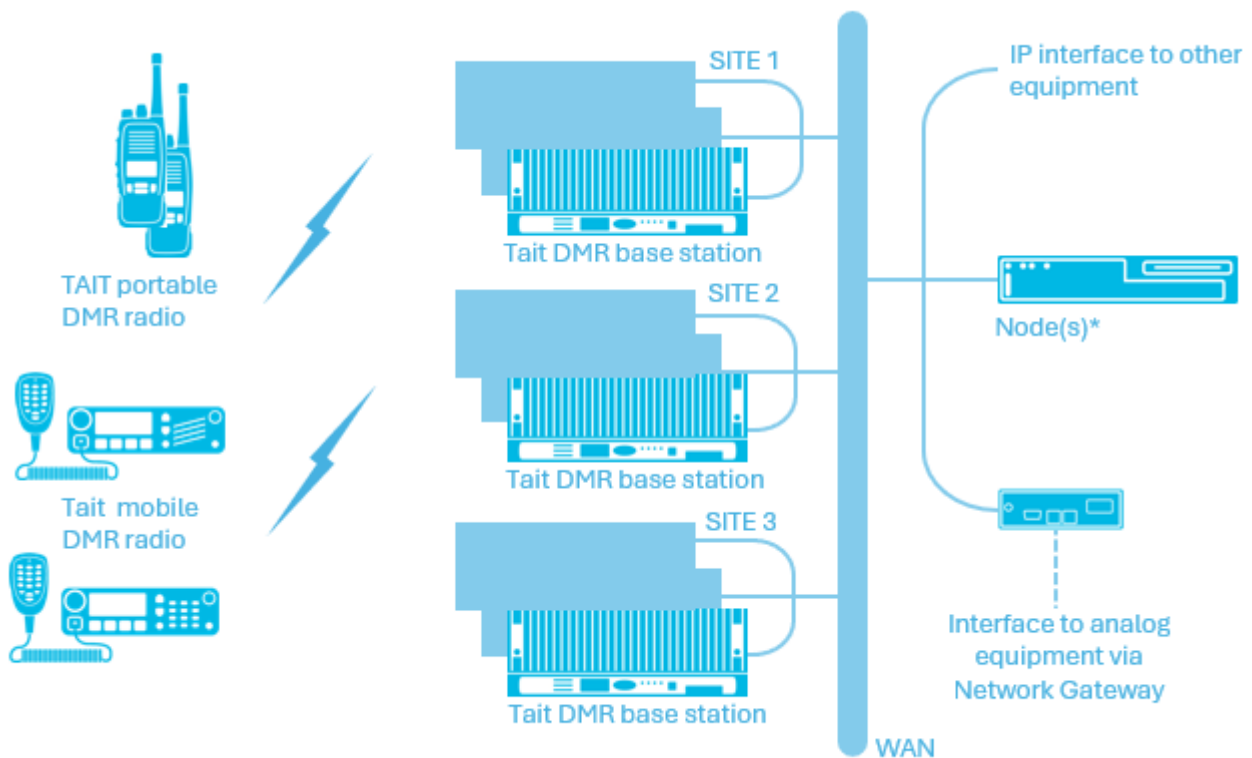
Tait OpenPeak conventional DMR Tier 2 networks bring exceptional critical communications capability to your organization. Our offering provides more capacity, a lower total cost of operation, simulcast, as well as a seamless evolution path to DMR Tier 3 trunking when your operations expand.

Tait OpenPeak is an advanced DMR Tier 2 solution which has capacity exceeding Tait Open2.

Our base stations are designed for strong RF performance in high interference environments, helping teams hear and be heard reliably. And because it's standard based DMR Tier 2, it's interoperable and scalable as needs grow.

Network Overview

A Tait DMR Conventional or Trunked network consists of core network equipment (which controls the operation of the network) and a number of sites, each of which consists of several base stations/repeaters linked over an IP backbone network to form a wide area network. Non-DMR base stations/repeaters (e.g. Analog, Actionnet, P25) can be integrated into this network via one or more Tait gateways.



Example Diagram: DMR Tier 3 system with 3 sites

*External server is not required for all configurations

The base stations/repeaters at a site provide the radio frequency (RF) interface to the radios.

The DMR system uses digital modulation and 2-slot TDMA (time division multiple access) on the RF path between the base stations and the mobile radios. TDMA divides up the frequency spectrum using timeslots whereby user A gets a few milliseconds of access to the spectrum, then it's the turn of user B so that one base station provides two "logical" channels on each 12.5kHz bandwidth transmit and receive frequency (one on each timeslot).

For DMR Tier 3 Trunking operation, at each site, there are one or more control channels and a number of traffic channels. Multiple control channels are used if there are a large number of radios using the site or if there is a lot of data traffic on the control channel, such as Short Data Service (SDS) or GPS location data. The radios are configured to prefer one control channel. Two control channels can be on the same base station (using both timeslots) or on different base stations (using one timeslot from each). Whether a logical channel operates as a control channel or a traffic channel is determined by the node and can be configured to meet your organizational requirements.

Network Elements

- **DMR Tier 3 Node** - controls the call setup, generates and stores call records and raises alarms. The Node can be hosted on a server, or in some system configurations can be hosted on a base station*. More than one Node can be configured in a system to enable High Availability.
- **DMR Tier 2 Channel Controller** - for DMR Tier 2 Conventional operation, the Channel Controller is only necessary for system connectivity (i.e. AIS Dispatch connection) and IP linked multi-site operations. The Channel Controller can be hosted on a server, or in some system configurations can be hosted on a base station**. More than one Channel Controller can be configured in a system to enable Standby (Base Station Channel Controller) or High Availability (Server channel Controller) redundancy.
- **Base Station/Repeater** - provides the RF path to and from the mobile and portable radios for the voice or data communications. Base Station Node is supported in some system configurations*.
- **Network gateway** - provides an interface to equipment and systems outside of the DMR system.
- **IP backbone** - interconnects the various elements of the DMR network.
- **Network Management** – Tait EnableMonitor, Tait EnableInsight and Tait EnableFleet.
- **Partner Products** - A full Tait DMR solution will integrate a wide variety of third-party elements like voice recorders, dispatchers and applications.
- **Simulcast** - For simulcast operation additional equipment is required.

**Tait DMR Tier 3 Tait OpenTrunk offers Base Station Node capability for some configurations. Base Station Node provides DMR Tier 3 capability and interfaces such as AIS. This option is available on base stations with hardware version 7 or higher.*

***Tait DMR Tier 2 Tait Open2 offers Base Station Channel Controller capability for some configurations. This option is available on TO2-B50 base stations. Server Channel Controller provides more capacities, interfaces such as AIS and SIP, voice recording and location services.*

DMR Tier 3 - Network Dimensions

Tait OpenPeak (Server Node, Full Feature Capable) - maximum dimensions with high level server.

ELEMENT	LIMITS
Sites / Network	250
Physical Channels / Network	1000 (2000 logical channels)
Physical Channels / Site	20 (40 logical channels)
Nodes / Network	20

Tait OpenTrunk (Server Node) - maximum dimensions with mid-level server and requires either single site or multi site licenses for the node and TB9400/TB9300 or TB7300 reciters:

ELEMENT	LIMITS
Sites / Network	16
Physical Channels / Network	48 (96 logical channels)
Nodes / Network	1+1 (if High Availability option, hosted on server)

Tait OpenTrunk (Base Station Node) - do not require an external server for the node. Tait OpenTrunk single site or multi site licenses are installed in the TB9400/TB9300 or TB7300 reciters:

ELEMENT	LIMITS
Sites / Network	3
Physical Channels / Network	9 (18 logical channels)
Nodes / Network	1+1 (if High Availability option, hosted on base station)

SYSTEM TYPE	Tait OpenPeak Server Node	Tait OpenPeak Server Node	Tait OpenTrunk Server Node	Tait OpenTrunk Base Station Node
SERVER PLATFORM	High Level	Mid Level	Low Level	no server required
Physical Sites per Network	250	100	16	3
Physical Channel per Network	1000	250	48	9
Physical Channels per Site	20	20	8	8
Nodes per Network	20	20	2	2
Traffic Capacity (call links) per Node	250	100	100	28
Concurrent DIP / AIS Connections per Network	up to 300	up to 150	multi site up to 24 single site up to 15	8
Concurrent PSTN Connections per Network	up to 300	up to 150	up to 24	No
Encryption (Node)	ARC4, DES, AES	ARC4, DES, AES	ARC4, DES	No
PABX calls	Yes	Yes	Yes	No

TN9300 Core Network

Tait OpenTrunk and Tait OpenPeak – DMR Tier 3 Feature Comparison

FEATURES	Tait OpenTrunk Base Station Node	Tait OpenTrunk Server Node	Tait OpenPeak 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	Yes	No	No
Remote log in on base station	Yes	Yes	Yes
Access to node records	Yes	Yes	Yes
Statistic records	Yes	Yes	Yes
DMR Tier 3 control channel	Yes	Yes	Yes
Fleet Management	Yes, single fleet	Yes, single fleet	Yes
Shared Channel support	Yes	Yes	No
TSCC hibernation	Yes	Yes	No
TSCC rotation	Yes	Yes	No
High Availability (redundant node)	Yes	Yes	Yes
Talk-groups	Yes	Yes	Yes
Caller ID	Yes	Yes	Yes
Emergency call pre-emption	Yes	Yes	Yes
Simulcast	No	No	Yes
Subscriber roaming	Yes	Yes	Yes
Four access priority levels	Yes	Yes	Yes
Terminal authentication	Yes	Yes	Yes
Device registration & authentication	Yes	Yes	Yes
Registration based group calls	Yes	Yes	Yes
Essential site assignment	No	No	Yes
Stun (selective radio inhibit)	Yes	Yes	Yes
Call queuing	Yes	Yes	Yes
Dynamic re-grouping	Yes	Yes	Yes
Location services	Yes	Yes	Yes
Location services - fast polling	No	Yes	Yes
Console connection	Yes	Yes	Yes
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 CC)	Yes	Yes	Yes
Terminal to Terminal Encryption	Yes	Yes	Yes
Audio De/Encryption support on node	No	ARC4, DES	ARC4, DES, AES
Voice Recording	No	Yes	Yes
Monitoring API	Yes	Yes	Yes
Temporary traffic mode	Yes	Yes	Yes
CALL OPTIONS			
Emergency calls	Yes	Yes	Yes
Broadcast calls	Yes	Yes	Yes
Priority calls	Yes	Yes	Yes
Divert own call	Yes	Yes	Yes
Status call	Yes	Yes	Yes
Text messaging	Yes	Yes	Yes
Group calls	Yes	Yes	Yes
Individual calls private	Yes	Yes	Yes
Individual calls to PSTN/PABX	No	Yes	Yes

TN9300 Core Network

Prior to the release of Tait OpenTrunk solutions Tait has offered DMR Express6 and DMR Express20. These continue to be available, if required, particularly to support existing systems.

DMR Express20 has the following maximum dimensions with mid-level server and requires Express20 licenses for the node and TB9400/TB9300 or TB7300 reciters:

ELEMENT	LIMITS
Sites / Network	20
Physical Channels / Network	80 (160 logical channels)
Nodes / Network	1+1 (if HA option)

DMR Express6 has the following maximum dimensions with mid-level server, and requires Express6 licenses for the node and TB9400/TB9300 or TB7300 reciters:

ELEMENT	LIMITS
Sites / Network	6
Physical Channels / Network	24 (48 logical channels)
Nodes / Network	1

Tier 2 - Network Dimensions

Tait OpenPeak

The following table gives the maximum dimensions of a DMR Conventional network. DMR Tier 2 SFE keys are installed on the TB9400/TB9300 or TB7300 reciters.

ELEMENT	LIMITS
Sites / Network	100
Physical Channels / Network	100 (200 logical channels)
Nodes / Network	1+1 (High Availability)

Tait Open2 Base Station Channel Controller (only with TO2-B50 base station)

ELEMENT	LIMITS
Sites / Network	9
Physical Channels / Network	Number of sites (max. 9) x number of Channel Controllers*
Channel Controllers / Network	1 (+1 redundant Channel Controller per Network in Standby Mode)

**each Base Station Channel Controller forms its own network that is not connected to other Channel Controller networks.*

Tait Open2 Server Channel Controller

ELEMENT	LIMITS
Sites / Network	100
Physical Channels / Network	100 (max 20 per site)
Channel Controllers / Network	1+1 (High Availability)

Tait Open2 and Tait OpenPeak – DMR Tier 2 Feature Comparison

FEATURES	Tait Open2 (TO2-B50)		Tait OpenPeak (TB7300/TB9400)
	Base station channel controller	Server channel controller	Server channel controller
FREQUENCY BANDS			
VHF	136-174 MHz		136-174 MHz
UHF	400-470 MHz		400-470 MHz
	470-520 MHz		470-520 MHz
			700/800 MHz
DMR TIER 2 SYSTEM DIMENSIONS			
Channel controller architecture	Distributed ¹	Centralized	Centralized
Sites	9	100	100
Repeaters per distinct network	9	100	100
Repeaters per site	1 per distinct network ²	20	20
Wide area groups	2 WAG per distinct network	80	80
DMR TIER 2 SYSTEM CAPABILITIES			
Concurrent audio connections	28	240	240
Concurrent SIP calls through gateway	✗	20	20
Concurrent AIS calls through gateway	✗	20	20
Concurrent encrypted voice calls involving gateway	✗	80	80
Encryption support	☑ (radio to radio only)	☑	☑
Access to channel controller records	☑	☑	☑
Redundant controller	☑ (Standby only)	☑ (High Availability) ³	☑ (High Availability) ³
Network alarms	☑	☑	☑
Talk-groups	☑	☑	☑
Caller ID	☑	☑	☑
Subscriber roaming	☑	☑	☑
Subscriber access restriction	☑	☑	☑
Stun (selective radio inhibit)	☑	☑	☑
Location services	✗	☑	☑
AIS console connection	✗	☑	☑
Open standard application interface	☑	☑	☑
Voice recording	✗	☑	☑
Monitoring services API	☑	☑	☑
Programmable workflows and automations (e.g. TaskBuilder)	☑	☑	☑
Simulcast	✗	✗	☑
Upgradeable to DMR Tier 3 trunking	✗	✗	☑
DMR TIER 2 CALL OPTIONS			
Emergency calls	☑	☑	☑
Broadcast calls	☑	☑	☑
Preemption calls from AIS console	✗	☑	☑
Status call	☑	☑	☑
Text messaging	☑	☑	☑
Group calls	☑	☑	☑
Individual calls private	☑	☑	☑
Individual calls to PSTN/PABX	✗	☑ (only with TP9, TM9)	☑ (only with TP9, TM9)
1. one channel controller per distinct network			2. Additional channels at a site require additional distinct networks, each with its own channel controller. Channels in different distinct networks do not communicate.
			3. License required

TN9300 Core Network

Network Hardware – Server Node

ITEM CODE	DESCRIPTION
TN9300100100000000	DMR Tier 3 Trunked Node Controller High-Level 110-230VAC
TN9300100200000000	DMR Tier 3 Trunked Node Controller High-Level 48VDC
TN9300110100000000	DMR Tier 3 Trunked Node Controller Mid-Level 110-230VAC
TN9300120100000000	DMR Tier 3 Trunked Node Controller Low-Level 110-230VAC
TN9300210100000000	DMR Tier 2 Conventional Channel Controller Mid-Level 110-230VAC
TN9300220100000000	DMR Tier 2 Conventional Channel Controller Low-Level 110-230VAC
TN9300300100000000	DMR Tier 3 Trunked Node with SCADA Gateway Hi Level AC
TN9300310100000000	DMR Tier 3 Trunked Node with SCADA Gateway Mid Level AC
TN9300320100000000	DMR Tier 3 Trunked Node with SCADA Gateway Low Level AC
TN9300620100000000	Tait OpenTrunk Node Controller Low 110-230VAC
TN9300620300000000	Tait OpenTrunk Node Controller Low 12VDC
TN927xxxxxxx00	Network Gateway – (refer to OTDP for more details)

Licenses

ITEM CODE	DESCRIPTION
TNAS300	License Tait Trunk DMR - Node Enabler without High Availability
TNAS302	License Tait Trunk DMR - High Availability (TNAS300/321 Prereq)
TNAS303	License Tait Trunk DMR - DIP 1 per call (TNAS300/320/321 Prereq)
TNAS304	License Tait Trk/Conv DMR - AIS 1 per call (TNAS300/310/320/321)
TNAS305	License Tait Trunk DMR - Data 1 per call
TNAS306	License Tait Trunk/Conv DMR - Voice Recorder
TNAS307	License Tait Trunk/Conv DMR - DES Encryption
TNAS308	License Tait Trunk DMR - OTAP
TNAS309	License Tait Trunk/Conv DMR - Telephony (SIP) 1 per call
TNAS310	License Tait Conv DMR – Channel Controller Enabler
TNAS311	License Tait Trunk DMR - Inter Network Connectivity
TNAS312	License Tait Trunk DMR - Simulcast
TNAS313	License Tait Trunk DMR - AES Encryption
TNAS314	License Tait Conv DMR - High Availability (TNAS310 Prereq)
TNAS315	License Tait Trunk/Conv DMR ARC4 Encrypt
TNAS320	License Tait Trunk DMR - Express6 Node Enabler
TNAS321	License Tait Trunk DMR - Express20 Node Enabler
TNAS330	License – Tait OpenTrunk SINGLE SITE required per base station
TNAS331	License – Tait OpenTrunk MULTI SITE required per base station
TNAS332	License – Tait OpenTrunk Upgrade from Single to Multisite
TNAS333	License – Tait OpenTrunk DMR - High Availability

TN9300 Core Network

Network Gateways

ITEM CODE	DESCRIPTION
TN95100521BA000000	TN9500 Inter-Network Gateway (MPT and MPT-IP/DMR) High Level server AC
TN95100522BA000000	TN9500 Inter-Network Gateway (MPT and MPT-IP/DMR) High Level server DC
TN95100021AB000000	TN9500 Inter-Network Gateway (MPT-IP/DMR) High Level server AC
TN95100022AB000000	TN9500 Inter-Network Gateway (MPT-IP/DMR) High Level server DC
TN95101011AB000000	TN9500 Inter-Network Gateway (MPT-IP/DMR) Mid Level server AC

Licenses

ITEM CODE	DESCRIPTION
TNAS701	MPT-IP or DMR Inter Node connection license
TNAS702	MPT Classic Inter Node connection license
TNAS703	TN9500 with High Availability
TNAS704	TN9500 Transcoding block of 1 license
TNAS705	TN9500 Transcoding block of 20 licenses
TNAS800	G.711 Transcoder License
TNAS801	G.711 Transcoder HA License

Core Network Overview

Network License	License Description	Tier II	Tier III	Rules of Engagement
# TNAS300	DMR - Tait OpenPeak Node Enabler without High Availability		•	One is required per Node. Licence to Enable up to 200 connections on the Network. (A connection is any logical voice Channel, Dispatcher, PSTN, etc....)
# TNAS302	DMR - High Availability (TNAS300/321 Prereq)		•	One is required per Node with High Availability. Enables High Availability on a system which already has another Main Node with a TNAS300 license. License up to 200 (A connection is any logical voice Channel, Dispatcher, PSTN, etc....) connections on the Network
* TNAS303	DMR - DIP 1 per call (TNAS300/320/321 Prereq)		•	One per active call used for Partner Consoles with DIP integration, MAP27 Gateway. Applies across the entire Network.
* TNAS304	DMR - AIS 1 per call (TNAS300/310/320/321)	•	•	One per active simultaneous call used for AIS. Applies across the entire Network. (AIS connection are available on both Tier 2 & 3 platforms but SIPs only available on Tier 3) platform)
* TNAS305	DMR - Data 1 per call		•	One is required per Call. (Enable Packet Data specific application and is required for GridLink)
* TNAS306	DMR - Voice Recorder	•	•	One is required per Node. (Enable a maximum of x2 Media / Voice Recorders)
* TNAS307	DMR - DES Encryption	•	•	One is required per Node. (Enable clear communication to a Console from the Node)
* TNAS308	DMR - OTAP		•	One is required per Node.
* TNAS309	DMR - Telephony (SIP) 1 per call	•	•	One per active simultaneous call used for Telephony - Applies across the entire Network. (AIS connection are available on both Tier 2 & 3 platforms but SIPs only available on Tier 3)
* TNAS310	DMR - Conventional Channel Controller Enabler	•		One is required per Channel Controller.
* TNAS311	DMR - Inter Network Connectivity		•	One is required per DMR System Trunked Node Controller connection.
* TNAS312	DMR - Simulcast		•	One is required per DMR System Trunked Node Controller connection.
* TNAS313	DMR - AES Encryption		•	One is required per DMR System Trunked Node Controller connection.
* TNAS314	DMR - High Availability Channel Controller (TNAS310 Prereq)	•		One is required per DMR Conventional System Channel Controller connection.
* TNAS315	DMR - ARC4 Encryption	•		One is required per Node. (Enable clear communication to a Console from the Node)
TNAS320	DMR - Express 6 Node Enabler		•	One is required per Node.
# TNAS321	DMR - Express20 Node Enabler		•	One is required per Node.
TNAS330	Tait OpenTrunk Single Site Chnl		•	One is required per repeater, installed on the Node. (Can be a Base Station Node or a Server Node)
# TNAS331	Tait OpenTrunk Multi Site Chnl		•	One is required per repeater, installed on the Node. (Can be a Base Station Node or a Server Node)
# TNAS332	Tait OpenTrunk Sngl to Multi Upg		•	One is required per repeater, installed on the Node. (Can be a Base Station Node or a Server Node)
# TNAS333	LIC Tait OpenTrunk DMR-High Availability		•	One is required per Node with High Availability. Enables High Availability on a system which already has another Main Node.
Base Station License	SFE License Description	Tier II	Tier III	Rules of Engagement
TBAS300	DMR - Tait OpenPeak (used with TNAS320 only)		•	One is required per Reciter for DMR Tier 3 Tait OpenPeak operation. This one license will cover two voice channels on a single Reciter.
TBAS301	Analog Air Interface			One is required per Reciter to operate in Analog mode (Conventional or MPT). This license is included by default.
TBAS302	DMR - Tier III Express6 Trunking (used with TNAS320 only)		•	One is required per Reciter for DMR Tier 3 Express6 operation. This one license will cover two voice channels on a single Reciter on a 1-6 Site system only with a max of 24 Reciters across 6 sites
TBAS303	DMR - Tier III Access Trunking		•	One is required per Reciter for DMR Tier 3 Access operation. This one license will cover two voice channels on a single Reciter with a max of 4 Reciters allowed on a single site DMR Access system.
TBAS304	DMR - Tier II Conventional	•		One is required per Reciter for DMR Tier 2 Conventional operation. This one license will cover two voice channels on a single Reciter.
TBAS305	DMR - Tier III Express20 Trunking (used with TNAS321 only)		•	One is required per Reciter for DMR Tier 3 Express20 operation. This one license will cover two voice channels on a single Reciter on a 1-20 Site system only with a max of 80 Reciters across 20 sites
TBAS306	DMR - Central Voter (Master)	•	•	One is required for the Central Voter per Voted/Simulcast channel, plus another one recommended as a back-up Central Central Voter Master Base Station.
TBAS307	DMR - IP Networking (Satellite, used in conjunction with TBAS306)	•	•	One is required for each Satellite Base Station. A pre-requisite is that at least one Master Base Station is present for that channel.
TBAS330	DMR - Tait OpenTrunk		•	One is required per repeater, installed on the repeater by default.
Network Hardware	Description	Tier II	Tier III	Rules of Engagement
TN930010010000000	DMR - Tier III Trunked Node Controller High Level 110-230VAC		•	Contron CG2300 with Media Kit Ubuntu 22.04 with DMR Tier III Trunked Node Controller Software
TN930010020000000	DMR - Tier III Trunked Node Controller High Level 48VDC		•	Contron CG2300 with Media Kit Ubuntu 22.04 with DMR Tier III Trunked Node Controller Software
TN930011010000000	DMR - Tier III Trunked Node Controller Mid Level 110-230VAC		•	DELL Power Edge R230 AC with Media Kit Ubuntu 22.04 with DMR Tier III Trunked Node Controller Software
TN930012010000000	DMR - Tier III Trunked Node Controller Low Level 110-230VAC		•	Sintronex SBOX-2620 AC with Media Kit Ubuntu 22.04 with DMR Tier III Trunked Node Controller Software
TN930021010000000	DMR - Tier II Conventional Node Controller Mid Level 110-230VAC	•		DELL Power Edge R230 AC with Media Kit Ubuntu 22.04 with DMR Tier II Conventional Channel Controller Software
TN930022010000000	DMR - Tier II Conventional Node Controller Low Level 110-230VAC	•		Sintronex SBOX-2620 AC with Media Kit Ubuntu 22.04 with DMR Tier II Conventional Channel Controller Software
TN932113000000000	DMR - Tier III Trunked Node Controller Software with Centos6 OS		•	
TN930062010000000	DMR - Tait OpenTrunk Node Controller Low 110-230V AC		•	Sintronex SBOX-2621 AC with Media Kit Ubuntu 22.04 with DMR Tier III Trunked Node Controller Software
TN930062030000000	DMR - Tait OpenTrunk Node Controller Low 12VDC		•	Sintronex SBOX-2621 DC with Media Kit Ubuntu 22.04 with DMR Tier III Trunked Node Controller Software
TN930061010000000	DMR - Tait OpenTrunk Node Controller Mid-Level 110-230V AC		•	
TN9271xxxxx00	DMR - Network Gateway	•	•	No Licence required
# If Multi-Node licence are required these operational licenses can be duplicated on the License Form				
* If you have purchased a High Availability license (TNAS302 or TNAS314) and have installed that H/A license, these other (*) licenses if purchased and installed on the main Node Controller or Channel Controller also needed to be installed on the H/A Node Controller or H/A Channel Controller.				



- ▶ **Base Stations (TB7300, TB9400, TB9300, TO2-B50)**
- ▶ **Accessories and Spares**

TB7300 • Rugged • Flexible • High Performance

Tait introduces a software flexible, rugged Base station/Repeater for DMR Tier 3 and DMR Tier 2 systems, or Analog repeaters.

The TB7300 integrates seamlessly with the proven Tait 9300 series high performance Base Station. A slim, 1U design forms part of an intelligent building block of an end-to-end network solution, which includes Base Station, Terminals and Tait network management software applications.



TB7300 Base Station – VHF 50W, UHF 40W

The TB7300 offers you the following features:

- ▶ Economical slim 1U design
- ▶ Multimode base station, can support DMR Tier 2 and Tier 3, P25 Conventional, P25 Phase 1 Trunking, Analog
- ▶ Software flexible migration path between platforms
- ▶ Exceptional receiver performance
- ▶ IP linked node solution for multi-site network capability
- ▶ Remote network management and monitoring
- ▶ SNMP Management Capability
- ▶ Real time monitoring via Tait EnableMonitor
- ▶ Centralized firmware management via Tait EnableFleet
- ▶ Can support Tait OpenTrunk, Tait OpenPeak, Express6, Express20 DMR Tier 3 systems, Tait Open2, Tait OpenPeak DMR Tier 2 systems
- ▶ 50W output power (VHF) 100% Duty Cycle
- ▶ 13.8VDC or 48VDC Input power typical
- ▶ 115-230VAC Input power
- ▶ Supports P25 via FW change
- ▶ Base Station Node capability (with hardware version 7 or higher) for DMR Tier 3
- ▶ Analog* and DMR simulcast option
- ▶ Analog wide band (25kHz)*

**Analog simulcast and analog wide-band requires P25 Firmware*

Frequency	Tait Band	Range	Power
VHF	B1	136–174MHz	50W
UHF	H5	400-470MHz	40W
	H3	470-520MHz	40W
800MHz	K4	762-870MHz*	35W

Standard Package Includes:

- ▶ Subrack including LED front panel with triple fans
- ▶ Control panel
- ▶ Power Amplifier (PA)
- ▶ Reciter (receiver/exciter) with system interface
- ▶ Installation guide

*The actual frequency coverage in this band is:

Transmit: 762 MHz to 776 MHz, and 850MHz to 870MHz
Receive: 792 MHz to 824 MHz

TB9400 • Intelligent • Modular • High Performance

Multimode operation

- ▶ Can support DMR Tier 2 and Tier 3, P25 Conventional, P25 Phase 1 Trunking, P25 Phase 2 Trunking, Analog
- ▶ Can support Tait OpenTrunk, Tait OpenPeak and Express6, Express20 DMR Tier 3 systems

Simulcast Options

- ▶ DMR Tier 2 and Tier 3 Simulcast
- ▶ P25 Linear Simulcast Modulation (LSM) - The TB9400 supports trunked simulcast and with LSM option. P25 Phase1 LSM is highly recommended for Phase 2 Simulcast operations.
- ▶ Analog Simulcast - The TB9400 supports P25 Phase 1 Conventional Analog Simulcast and is fully re-useable when migrating to P25 Trunked Simulcast Phase 1/Phase 2

Digital Control Design

- ▶ The TB9400 features a state-of-the-art RISC processor and Digital Signal Processor (DSP), providing very fast, reliable processing through the latest in digital technology.

Convenient Modular Design

- ▶ Designed for ease of hook-up and adaptation in the field, the TB9400 is configured with front-loading modules that can be mixed and matched to meet your system needs. The TB9400 gives you the flexibility to make module changes in the field.

Built-in Standard Interfaces

- ▶ The TB9400 has built-in a variety of industry-standard IP interfaces to enable easy connectivity to the rest of your system. These include HTTPS web browser access for maintenance and SNMP for monitoring.

Power Management System

- ▶ The comprehensive power management system provides the ability to automatically switch between AC and DC input power, to move to battery operation in the case of power failure, and to provide an auxiliary output power supply for third-party equipment.

Complete Remote Accessibility plus Tait EnableFleet and Tait EnableMonitor support

- ▶ The advanced web interface of the TB9400 makes remote management of your system simple. The web interface uses HTTPS which provide security for the transactions between the web browser and the base station. Parameters can be configured or monitored remotely with a web browser and multiple user accounts are supported for user access control. Additionally, the firmware of the TB9400 can be managed via Tait Enable Fleet and real time monitoring is offered via Tait EnableMonitor.

Robust Specifications

- ▶ Built to exceed standard specifications, the TB9400 is designed to withstand extreme temperature conditions. Engineered for maximum reliability, the TB9400 has large heat sinks, advanced cooling, and the intelligence to maintain the highest possible levels of service in adverse environments.

Peak RF Performance

- ▶ With outstanding specifications for selectivity, adjacent channel interference and fast key-up times, the TB9400 base station was designed using the best RF practices.

TB9400 Base Station – 50W Single, Dual & 100W Single

Standard Package Includes:

- ▶ Subrack including front panel with triple fans
- ▶ Control panel
- ▶ Power Management Unit (PMU) options as selected
- ▶ Power Amplifier (PA)
- ▶ Reciter (receiver/exciter) with system interface
- ▶ Installation guide



Options:

- ▶ PMU options are:
 - AC = Input of 88-264VAC with 12, 24 or 48VDC AUX output
 - DC = Input of 48VDC with 12, 24 or 48VDC AUX output
 - ACDC = Inputs of 88-264VAC with 12, 24 or 48VDC AUX output
 - Auxiliary (AUX) power output voltage options are selectable 12VDC, 24VDC or 48VDC AUX.
 - Choose the PMU from the OTDP TB9400 Base Station configuration table
- ▶ Power Cord options:
 - Choose the Power Cord from the OTDP TB9400 Base Station configuration table. Please note that DC PMU option, power cord is not required.
- ▶ Licenses
 - Choose the Licenses from the OTDP TB9400 Base Station configuration table.

Note:

- ▶ Not all products have compliance in all regions/countries. Please check the Tait Product Specification sheet or contact your Tait Representative for further information.
- ▶ Additional configuration costs may apply, any queries, please contact your Tait customer support representative.
- ▶ For more configuration options, please refer to the OTDP TB9400 Base Station configuration table.

Frequency	Range	Tait Band	TB9415 Single/Dual 50W with PMU	TB9435 Single 100W with PMU	TB9444 Multi Reciter Max 4 Channel with PMU
VHF	136-174MHz	B1	✓	✓	
UHF	378-420MHz	HH	✓	✓	
	400-480MHz	HG *	✓	✓	
	470-520MHz	H3	✓	✓	
700/800MHz	RX 794-824MHz TX 762-870MHz	K4	✓	✓	

*H1 and H2 band still available if required

TB9400 Base Station – Receive Only

Standard Package Includes:

- ▶ Subrack including front panel with triple fans
- ▶ Control panel
- ▶ Power Management Unit (PMU) options as selected
- ▶ Reciter (receiver/exciter) with system interface
- ▶ Installation guide



Options:

- ▶ Receive Only options are:
 - Choose the number of receivers required from 1 to 4
- ▶ PMU options are:
 - AC = Input of 88-264VAC with 12, 24 or 48VDC AUX output
 - DC = Input of 48VDC with 12, 24 or 48VDC AUX output
 - ACDC = Inputs of 88-264VAC with 12, 24 or 48VDC AUX output
 - Auxiliary (AUX) power output voltage options are selectable 12VDC, 24VDC or 48VDC AUX.
 - Choose the PMU from the OTDP TB9400 Base Station configuration table
- ▶ Power Cord options:
 - Choose the Power Cord from the OTDP TB9400 Base Station configuration table. Please note that for DC PMU option a power cord is not required.
- ▶ Licenses
 - Choose the Licenses from the OTDP TB9400 Base Station configuration table.

Note:

- ▶ Not all products have compliance in all regions/countries. Please check the Tait Product Specification sheet or contact your Tait Representative for further information.
- ▶ Additional configuration costs may apply, any queries, please contact your Tait customer support representative.
- ▶ For more configuration options, please refer to the OTDP TB9400 Base Station configuration table.

Frequency	Range	Tait Band	TB9415	TB9435	TB9444
			Single/Dual 50W with PMU	Single 100W with PMU	Multi Reciter Max 4 Channel with PMU
VHF	136-174MHz	B1			✓
UHF	378-420MHz	HH			✓
	400-440MHz	H1			✓
	440-480MHz	H2			✓
	470-520MHz	H3			✓
700/800MHz	RX 794-824MHz TX 762-870MHz	K4			✓

TB9300 • Intelligent • Modular • High Performance

All TB9300 systems offer continuous duty cycle operation at full performance specifications within the complete temperature and altitude range.

With flexible, modular design and practical features, the TB9300 raises the bar for DMR base stations/repeaters.

Its practical features coupled with impressive RF performance to really make a difference in high interference/RF sites makes the TB9300 the next generation base station.

The TB9300 offers you the following features:

- ▶ Full IP connectivity allows efficient scaling and design of your network
- ▶ Full remote control, diagnostics & self-monitoring capability
- ▶ Compact 4U rack profile
- ▶ Choice of single 100W or single 50W or dual 50W configurations per sub-rack
- ▶ Programmable power input in 1W steps, per channel
- ▶ Seamless backup battery operation and charging with ACDC supply
- ▶ Analog Repeater (single site)

All TB9300 packages include:

- ▶ Complete sub-rack including front panel with triple fans
- ▶ Control panel, modules & software features as described
- ▶ Power cord for AC & ACDC systems
- ▶ Installation guide



Range	Tait Band	50W	100W	50W DUAL
174-193MHz	C1	✓		✓
216-225MHz	C3		✓	
400-470MHz	H5	✓		✓
896-941MHz*	L2		✓	

*TX: 927-941MHz, RX: 896-902MHz

TB9300 Base Station – VHF, UHF, 900MHz Single 50W & 100W

Standard Package Includes:

- ▶ Sub-rack including front panel with triple fans
- ▶ Control panel
- ▶ Power Management Unit (PMU) options as selected
- ▶ Power Amplifier (PA)
- ▶ Reciter (receiver/exciter) with system interface
- ▶ Installation guide
- ▶ Not all products have compliance in all regions/countries. Please check the Tait Product Specification sheet or contact your Tait Representative for further information.
- ▶ For more configuration options, please refer to the TB9300 Base Station configuration table on page 3. Additional configuration costs may apply.



Options:

- ▶ PMU options are:
 - AC = Input of 88-264VAC with 12, 24 or 48VDC AUX output
 - DC = Input of 48VDC with 12, 24 or 48VDC AUX output
 - ACDC = Inputs of 88-264VAC with 12, 24 or 48VDC AUX output
 - Auxiliary (AUX) power output voltage options are selectable 12VDC, 24VDC or 48VDC AUX.
 - Choose the PMU from the OTDP TB9300 Base Station configuration table
- ▶ Power Cord: Choose the Power Cord from the OTDP TB9300 Base Station configuration table. Please note that for the DC PMU option, a power cord is not required.

Frequency	Range	Tait Band	TB9315 Single/Dual 50W	TB9335 Single 100W
VHF	174-193MHz	C1	✓	
	216-225MHz	C3		✓
UHF	400-470MHz	H5	✓	
900MHz	Tx:927-942MHz Rx:896-902MHz	L2		✓

Base Station – VHF, UHF, Dual 50W

Standard Package Includes:

- ▶ Sub-rack including front panel with triple fans
- ▶ Control panel
- ▶ Power Management Unit (PMU) options as selected
- ▶ Power Amplifier (PA)
- ▶ Reciter (receiver/exciter) with system interface
- ▶ Installation guide



Options:

- ▶ PMU options are:
 - AC = Input of 88-264VAC with 12, 24 or 48VDC AUX output
 - DC = Input of 48VDC with 12, 24 or 48VDC AUX output
 - ACDC = Inputs of 88-264VAC with 12, 24 or 48VDC AUX output
 - Auxiliary (AUX) power output voltage options are selectable 12VDC, 24VDC or 48VDC AUX.
 - Choose the PMU from the OTDP TB9300 Base Station configuration table
- ▶ Power Cord: Choose the Power Cord from the OTDP TB9300 Base Station configuration table. Please note that for the DC PMU option, a power cord is not required.

Frequency	Frequency Band	Tait Band	TB9315 Single/Dual 50W
VHF	174-193MHz	C1	✓
UHF	330-380MHz	G4	✓
	400-470MHz	H5	✓

TO2-B50 • Enterprise DMR Tier 2 Base Station

The TO2-B50 is a compact and cost-effective DMR Tier 2 base station that offers advanced communication features in a modern, 1U high and 19-inch-wide form factor with an LED indicator front panel.

The TO2-B50 is based on the TB7300 and has the same RF performance. With Tait's proven quality, the TO2-B50 is the ideal choice for cost-conscious customers who value safety, durability, and reliable performance.



TO2-B50 Base Station – VHF 50W, UHF 40W

The TO2-B50 offers you the following features:

- ▶ Economical slim 1U design
- ▶ Dual mode base station, can support DMR Tier 2 and Analog
- ▶ 4000 Channels
- ▶ Exceptional receiver performance
- ▶ IP linked channel controller solution for multi-site network capability
- ▶ Remote network management and monitoring
- ▶ SNMP Management Capability
- ▶ Real time monitoring via Tait EnableMonitor
- ▶ Centralized firmware management via Tait EnableFleet
- ▶ 1-50W output power (VHF) 100% Duty Cycle
- ▶ 1-40W output power (UHF) 100% Duty Cycle
- ▶ 13.8VDC Input power typical
- ▶ 120-230VAC Input power
- ▶ Base Station Channel Controller capability
- ▶ Analog wide band (25kHz)

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

Standard Package Includes:

- ▶ Subrack including LED front panel with triple fans
- ▶ Control panel
- ▶ Power Amplifier (PA)
- ▶ Reciter (receiver/exciter) with system interface
- ▶ Installation guide

Base Station Licenses

Software Licenses

DMR	
ITEM CODE	DESCRIPTION
TBAS301	SFE Key - Analog Air interface (93/94/73)
TBAS300	SFE Key - Trunking with TDMA operation (93/94/73)
TBAS302	SFE Key - Express6 with TDMA operation (93/94/73)
TBAS304	SFE Key - Conventional with TDMA operation (93/94/73)
TBAS305	SFE Key - Express 20 with TDMA operation (93/94/73)
TBAS306	SFE Key - DMR Central Voter (93/94/73) (Master)
TBAS307	SFE Key - DMR IP Networking (93/94/73) (Satellite)
TBAS073	SFE Key – TaskBuilder (94/73)
TBAS330	SFE-Key – Tait OpenTrunk
TNAS330,-331,-332 for Tait OpenTrunk	Refer to network licenses on page 8

Note:

- ▶ **DMR Tier 3 Trunking** - Software Feature License TBAS300 used with TNAS300.
- ▶ **DMR Tier 3 Express20** - Software Feature License TBAS305 used with TNAS321.
- ▶ **DMR Tier 3 Express6** - Software Feature License TBAS302 used with TNAS320.
- ▶ **DMR Tier 3 Tait OpenTrunk** – Base Node Licences refer to page 8.
- ▶ **DMR Tier 2 Conventional** – Software Feature License TBAS304 for DMR Conventional mode of.
- ▶ **Analog Repeater** – Software Feature License TBAS301 for Analog Conventional mode of operation is fitted as default (i.e., SFE included in all configurations).

ANALOG*	
ITEM CODE	DESCRIPTION
TBAS041	SFE Key - Analog Air Interface (94/73/ TO2-B50)
TBAS084	SFE Key - 20/25kHz Unrestricted Wideband (94/73/TO2-B50)
TBAS061	SFE Key - Central Voter (94/73)
TBAS062	SFE Key - P25 Simulcast Enable Phase1 (Pre-requisite TBAS061) (94/73)
TBAS071	SFE Key - IP Networking Satellite (94/73)
TBAS073	SFE Key – TaskBuilder (94/73/TO2-B50)

*Analog simulcast and analog wide-band requires P25 Firmware

TBA073 TaskBuilder Overview

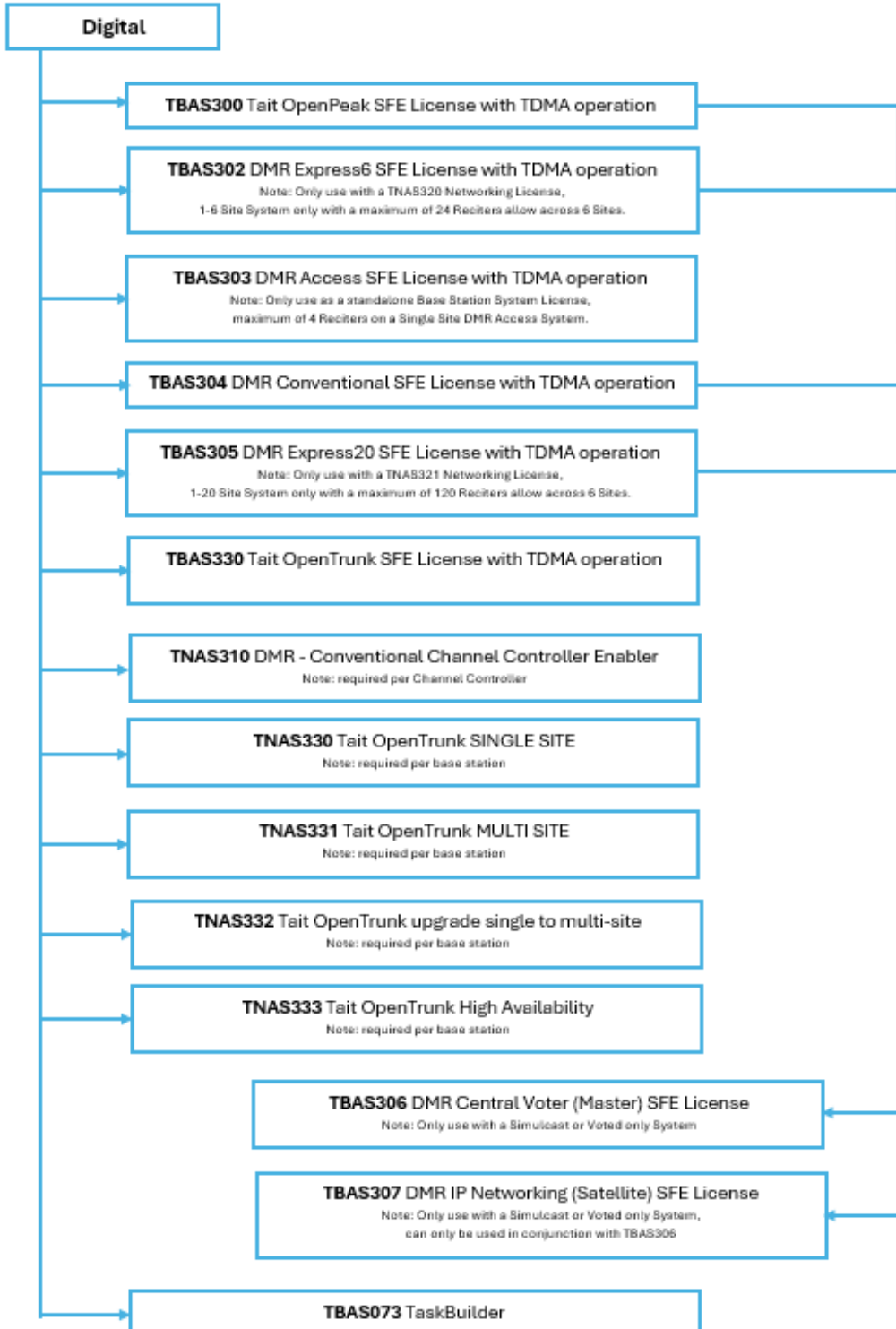
TaskBuilder provides a way to control base station operation. TaskBuilder allows the base station to:

- respond to alarms
- raise and clear custom alarms
- respond to digital inputs
- sense base station Tx
- activate digital outputs
- change the base station channel

TaskBuilder programs specify actions to take when given conditions are true and when specified events occur.

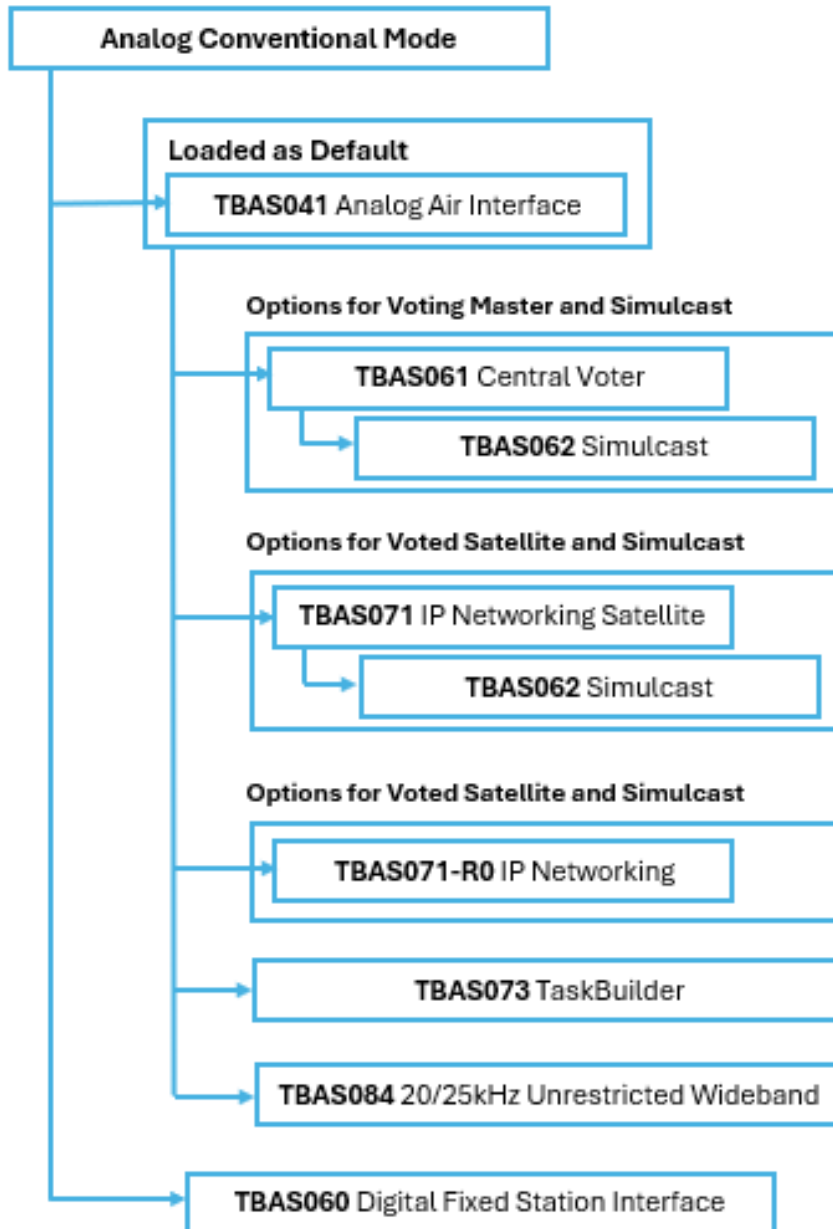
Software Licenses

All software enhancements are enabled on a per feature per reciter basis.



Software Licenses – Analog Voting Mode and Simulcast

All software enhancements are enabled on a per feature per reciter basis.



Power Management Units (PMU)

Standard Features for Standby power supply include:

- ▶ Seamless ACDC change over
- ▶ DC options are 12, 24, 48VDC
- ▶ Enable AC, DC or ACDC supply
- ▶ Selectable auxiliary output voltage to be 12, 24, or 48VDC

Standard Features for Auxiliary power supply include:

- ▶ Floating output may be negatively or positively earthed
- ▶ Can be configured to be on all the time (to supply external equipment) or only while mains are available

Note:

- ▶ Standby and Auxiliary Power Supplies are included as standard



AC – Power Management Units (PMU)

Standard Package Includes:

- ▶ 88 to 264V input with power factor correction
- ▶ Selectable auxiliary output voltage to be 12, 24, or 48VDC
- ▶ Sufficient output power to drive 1 x 100W transmitter or up to two 50W transmitters
- ▶ Remotely controllable and programmable
- ▶ Built-in alarms and diagnostics



ITEM CODE	DESCRIPTION
T01-11140-AAAA	TB8000/9000 Power Management Unit TD440-AC

TB9400/9300 PMU

DC – Power Management Units (PMU)

Standard Package Includes:

- ▶ Operates from 48VDC supply
- ▶ Input supply can be negatively or positively earthed
- ▶ Selectable auxiliary output voltage to be 12, 24, or 48VDC
- ▶ Sufficient output power to drive 1 x 100W transmitter or up to two 50W transmitters
- ▶ Remotely controllable and programmable
- ▶ Built-in alarms and diagnostics



ITEM CODE	DESCRIPTION
T01-11140-BDAA	TB8000/9000 Power Management Unit TD440- DC48

ACDC – Power Management Units (PMU)

Standard Package Includes:

- ▶ Seamless and automatic switching from AC to DC
- ▶ AC operates 88 to 264V input with power factor correction
- ▶ DC operates from 12, 24 or 48VDC supply
- ▶ DC input supply can be negatively or positively earthed
- ▶ Selectable auxiliary output voltage to be 12, 24, or 48VDC
- ▶ Sufficient output power to drive 1 x 100W transmitter or up to two 50W transmitters
- ▶ Remotely controllable and programmable
- ▶ Built-in alarms and diagnostics



ITEM CODE	DESCRIPTION
T01-11140-ABAA	TB8000/9000 Power Management Unit TD440-AC/DC12
T01-11140-ACAA	TB8000/9000 Power Management Unit TD440-AC/DC24
T01-11140-ADAA	TB8000/9000 Power Management Unit TD440-AC/DC

Tait Services

As an OEM with more than 50 years of experience in designing, building, deploying and maintaining critical communications systems, Tait understands that a robust design and implementation is crucial for radio network reliability, efficiency and scalability. Incorporating Tait project and professional services along with a Tait DMR infrastructure purchase helps drive cost effective deployment and network optimization to increase operational efficiency of the entire communications network.

Efficiency and Reliability

Tait works alongside our dealers to deliver a full portfolio of implementation services to ensure the communications network delivers the outcomes your end users expect. We work with you to understand your requirements and constraints, then design and deploy the most efficient and reliable solution for your situation.

Our deep industry knowledge, communications product and solution expertise, and complete range of services to support communications network delivery, work together to ensure an optimal solution that your customer can rely on.

Scalability

Plan and deliver a communications system that continues to grow and evolve while delivering operational efficiency. With many decades of experience in critical communications, we understand the complexities of integrating and upgrading communications networks and will work with you to design an optimized network that will accommodate growth.

Services Built for Critical Communications Networks

Available Tait Implementation Services include turnkey network delivery as a complete project, or selection of project services, as needed, and including:

- Detailed system design and redesign
- System upgrades and integrations
- Installation and deployment of base stations
- Radio systems installation and commissioning
- Coverage planning and verification
- Interference mitigation
- Capacity planning
- Site RF system design and site surveys

Project Services

We offer project management services that can oversee the entire design, implementation, commissioning, and acceptance testing for your customer's communications network. Our industry qualified project managers will control and organize each stage of the project to deliver the agreed solution, and can include strategy and selection, planning and scheduling, communications, risk management, change control, deployment and transition to the live environment.

Acceptance Testing

When a customer requires evidence of a delivered solution's conformance to a defined set of outcomes, Tait Acceptance Testing provides the means to obtain and deliver the evidence. Acceptance tests may take place at various stages of system deployment, for different purposes and are frequently combined within a project.

Acceptance test types may include:

- **Factory Acceptance Test (FAT):** testing performed in a Tait-managed staging environment
- **System Acceptance Test (SAT):** testing performed on a commissioned system in the customer environment
- **Customer Acceptance Test (CAT):** testing performed when and where required by the customer to satisfy their verification goals
- **User Acceptance Test (UAT):** testing performed on a commissioned system by the customer's representative end-users for the purpose of verifying system usability

Tait will incorporate the required acceptance testing into the scope and plan for a delivery project. Testing will be planned according to the purpose and functional or performance baselines agreed with the dealer and customer. Tait will arrange and perform testing or can supervise testing performed by others, including our appointed partners.

Support Options

Support options for Tait DMR infrastructure and communications networks include:

- **Tait Assurance:** (for stand-alone repeaters) Extended warranty, 8/5 technical support and software updates
- **Tait Advantage:** (for networks) Extended warranty, 24/7 technical support with service restoration, software updates and optional 24/7 network monitoring
- **Tait Managed:** Monitoring and managing network operations, performance, reporting and maintenance

Accessories

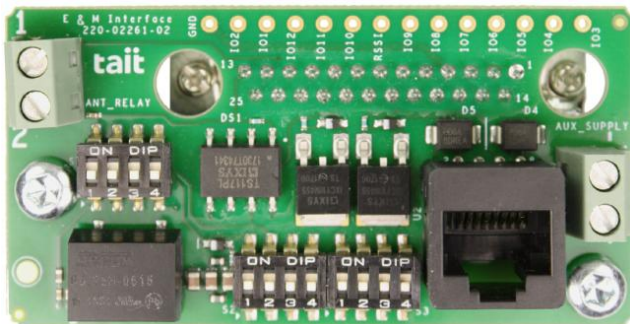
Power Cables

ITEM CODE	DESCRIPTION
219-01000-00	CBL cord 2m Aust/NZ IEC (TB93/94/73/ TO2-B50)
219-01001-00	CBL cord 2m UK IEC (TB93/94/73/ TO2-B50)
219-01002-00	CBL cord 2m EU IEC (TB93/94/73/ TO2-B50)
219-01007-00	CBL cord 2m BRL IEC (TB93/94/73/ TO2-B50)
219-01561-00	CBL cord 2m USA IEC blk (TB93/94/73/ TO2-B50)

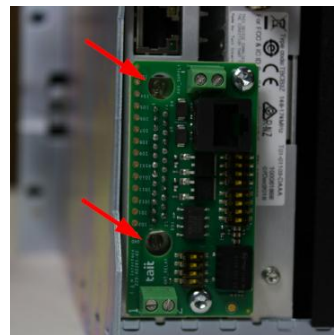
E&M Isolation Adaptor

ITEM CODE	DESCRIPTION
TBC101A	E&M Isolation Adaptor

The TBC101A E&M Isolation Adapter module mounts directly to the DB-25 connector at the rear of a TB7300 base station or TB9300/TB9400 reciter. It is designed to allow E&M signalling voltages to be applied to a base station and provide full galvanic isolation between the base station and external equipment, such as telecom lines.



Rear of TB7300 with isolation adapter fitted



Rear of TB93/94 with isolation adapter fitted

Accessories and Spares

Spare Subracks

ITEM CODE	DESCRIPTION
TBC-SP-9435RF	TB9400 P25 Subrack AC/DC Linear 100W
TBC-SP-9415RF	TB9400 P25 Subrack AC/DC Linear 50W
TBC-SP-9444RF	TB9400 P25 Subrack Assembly Receive Only with PMU
TBC-SP-9315RF	TB9300 Spare Subrack AC/DC 50W
TBC-SP-9335RF	TB9300 Spare Subrack AC/DC 100W

Spare PBA Kits

ITEM CODE	DESCRIPTION
TBC-SP-0001	TB94 Spare user interface PBA + LCD
TBC-SP-0003	TB94 Spare PBA PA Final TBC 136-174M
TBC-SP-0004	TB94 Spare PBA TBC PA Final 380-440M
TBC-SP-0005	TB94 Spare PBA PA Final TBC 440-520M
TBC-SP-0006	TB94 Spare PBA TBC PA Final K4
TBC-SP-0007	TB94 Spare PBA LPA LPF VHF 50W/100W
TBC-SP-0008	TB94 Spare PBA LPA LPF UHF 50W
TBC-SP-0009	TB94 Spare PBA LPA LPF UHF 100W
TBC-SP-0010	TB94 Spare PBA LPA LPF 700/800M 50W
TBC-SP-0011	TB94 Spare PBA LPA LPF 700/800M 100W

Spare Front Panels

ITEM CODE	DESCRIPTION
TBC-SP-9435FP	TB9400 P25 Front Panel Assembly 100W
TBC-SP-9415FP	TB9400 P25 Front Panel Assembly 50W
TBC-SP-9444FP	TB9400 P25 Front Panel Assembly Receive Only with PMU
TBC-SP-9300FP	TB81/91/93 Spare Front Panel Assy 50/100W

Spare Chassis Assembly (Includes Subrack & Front Panel)

ITEM CODE	DESCRIPTION
TB9315D-050T	TB9300 Dual 50Watt Chassis Assembly
TB9315S-050T	TB9300 Single 50Watt Chassis Assembly
TB9335S-100T	TB9300 Single 100Watt Chassis Assembly
TB9415D-050T	TB9415 Dual 50W Chassis Assembly
TB9415S-050T	TB9415 Single 50W Chassis Assembly
TB9435S-100T	TB9435 Single 100Watts Chassis Assembly
TB9444-RX1T	TB9444 Single Receiverx1 Chassis Assy
TB9444-RX2T	TB9444 Multi Receiverx2 Chassis Assy
TB9444-RX3T	TB9444 Multi Receiverx3 Chassis Assy
TB9444-RX4T	TB9444 Multi Receiverx4 Chassis Assy

Accessories and Spares

Coaxial Relay Assembly

ITEM CODE	DESCRIPTION
TBAA03-15	TB9100 Relay Coax Assembly Fit with Single Mounting Bracket

TB9400 Reciters

ITEM CODE	DESCRIPTION
T01-11103-BAAA	TB9400 Stocker Reciter 136-174MHz
T01-11103-JAAA	TB9400 Stocker Reciter 378-420MHz
T01-11103-KAAA	TB9400 Stocker Reciter 400-440MHz
T01-11103-LAAA	TB9400 Stocker Reciter 440-480MHz
T01-11103-MAAA	TB9400 Stocker Reciter 470-520MHz
T01-11103-NAAA	TB9400 Stocker Reciter 762-870MHz
T01-11104-DAAA	TB9400 Stocker Rx Only 148-174M
T01-11104-NAAA	TB9400 Stocker Rx Only 794-824M
T01-11104-JAAA	TB9400 Stocker Rx Only 378-420M
T01-11104-KAAA	TB9400 Stocker Rx Only 400-440M
T01-11104-LAAA	TB9400 Stocker Rx Only 440-480M
T01-11104-MAAA	TB9400 Stocker Rx Only 470-520M
T01-11104-NAAA	TB9400 Stocker Rx Only 794-824M

TB9400 Power Amplifiers

ITEM CODE	DESCRIPTION
T01-11121-BABA	TB9400 Stocker Linear Power Amplifier 136-174M 50W
T01-11121-KAAA	TB9400 Stocker Linear Power Amplifier 400-440M 50W
T01-11121-LAAA	TB9400 Stocker Linear Power Amplifier 440-480M 50W
T01-11121-NAAA	TB9400 Stocker Linear Power Amplifier 762-870M 50W
T01-11121-BBBA	TB9400 Stocker Linear Power Amplifier 136-174M 100W
T01-11121-KBAA	TB9400 Stocker Linear Power Amplifier 400-440M 100W
T01-11121-LBAA	TB9400 Stocker Linear Power Amplifier 440-480M 100W
T01-11121-NBAA	TB9400 Stocker Linear Power Amplifier 762-870M 100W

TB9300 Reciters

ITEM CODE	DESCRIPTION
T01-11105-EAAA	TB9300 Stocker Reciter 174-193MHz
T01-11105-HAAA	TB9300 Stocker Reciter 330-380MHz

TB9300 Power Amplifiers

ITEM CODE	DESCRIPTION
T01-11136-EAAC	TB9300 Stocker PA 50W 174-225M
T01-11136-EBAC	TB9300 Stocker PA 100W 174-225M
T01-11136-HAAA	TB9300 Stocker PA 50W 330-380M

Accessories and Spares

Base Station Tool Kit

ITEM CODE	DESCRIPTION
TBA0ST2	Tool Kit



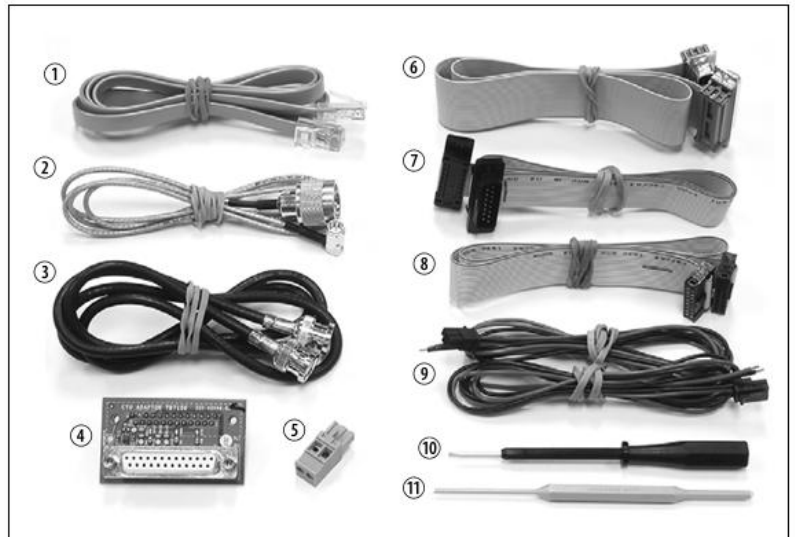
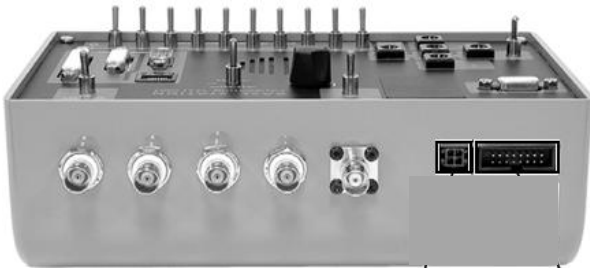
Content:

- screwdriver Torx T20
- screwdriver tip flat 2mm
- spanner 5/16" fixed
- screwdriver tip Pz #2 L100
- tuning tool 0.9 x 0.4mm ceramic tip
- screwdriver tip T10 L75
- screwdriver tip T08 L78
- screwdriver extnl 5.5 hex M3 L76
- screwdriver tip flat 5x1 L78
- tuning tool Johanson 8777
- tuning tool ceramic 1.8 x 30mm

Accessories and Spares

Base Station Calibration Test Unit + Cable

ITEM CODE	DESCRIPTION
TBA0STU	CALIBRATION TEST UNIT + CABLE



		Description	TB7100	TB8100	TB8200/ TB9100
①		RJ45 cable			✓
②		SMA-to-N-type cable		✓	✓
③		BNC-to-BNC cable	✓	✓	✓
④		TB7100 CTU adaptor board for use with 25-way cable	✓		
⑤		power connector for PMU auxiliary DC output		✓	✓
⑥		25-way cable (D-range)	✓	✓	
⑦		15-way cable (TaitNet D-range)		✓	
⑧		16-way cable (system control bus)		✓	✓
⑨		DC power cables		✓	✓
⑩	937-00012-00	tuning tool (Murata ceramic)	✓	✓	✓
⑪	937-00013-00	tuning tool (Johanson 8777)		✓	✓