

Tait DMR Tier 3 Solutions

Networks for reliable digital voice and data communications

DMR Express20

- ▶ Scalable solution from 1-20 sites
- ▶ Optional High Availability Node
- ▶ Up to 80 RF channels

DMR Express

- ▶ Scalable solution from 1-6 sites
- ▶ Easily managed single node network
- ▶ Up to 24 RF channels

DMR Access

- ▶ Single site trunking
- ▶ Up to 4 RF channels

Tait DMR Tier 3 delivers exceptional performance and reliability, centralized network management, improved worker safety and business efficiency, information integrity and operational security, as well as flexibility and scalability to meet your future needs.



EXCEPTIONAL PERFORMANCE AND RELIABILITY

Tait DMR networks and radios deliver excellent performance in demanding environments. Tait DMR base stations and terminals exceed military standard 810G specifications, ensuring that they will withstand the knocks and wear of real environments.



CENTRALIZED NETWORK MANAGEMENT

Tait network management system gives you full, centralized control of your DMR network as well as dashboard monitoring for system performance and network loading.



IMPROVED WORKER SAFETY AND BUSINESS EFFICIENCY

DMR provides crystal clear voice, ensuring that messages are heard the first time. With a range of channel signalling formats, DMR provides flexibility and choice to ensure that mission critical data always gets through. Integrated GPS ensures that you know the precise location of your workforce and one-touch status messaging enables quick and easy notifications from your workforce.



INFORMATION INTEGRITY AND OPERATIONAL SECURITY

Your voice and data communications are protected from eavesdroppers to ensure you only communicate with your intended audience. Devices are registered onto the network, so only authorized users can use the network and terminals.



FLEXIBILITY AND SCALABILITY

Future migration from Tait DMR Express to a larger Tait DMR network is easily managed with a simple software licence upgrade. Every Tait DMR network is scalable from a single site with one base station to a large, wide area network with up to 20 nodes and up to 1,000 RF channels. Multiple Tait DMR networks can be joined to provide even wider coverage and capacity.

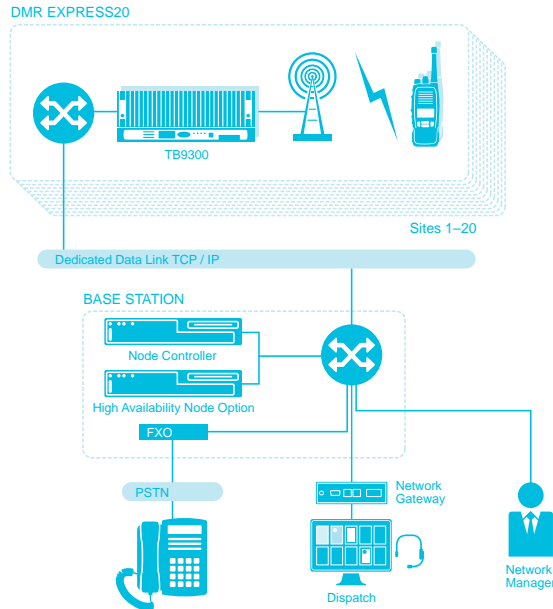
Tait DMR Express20

Tait DMR Express20 is composed of a central node that controls the network operation and can support an optional High Availability Node.

The network can scale up from one to twenty sites, each consisting of base stations linked over an IP backbone to form a wide area network.

The node enables a wide range of interface options including dispatch, location services, and more advanced data functionality such as OTAP, Packet Data & SCADA.

Tait DMR Express operates up to a total of 80 RF channels in a twenty-site configuration.



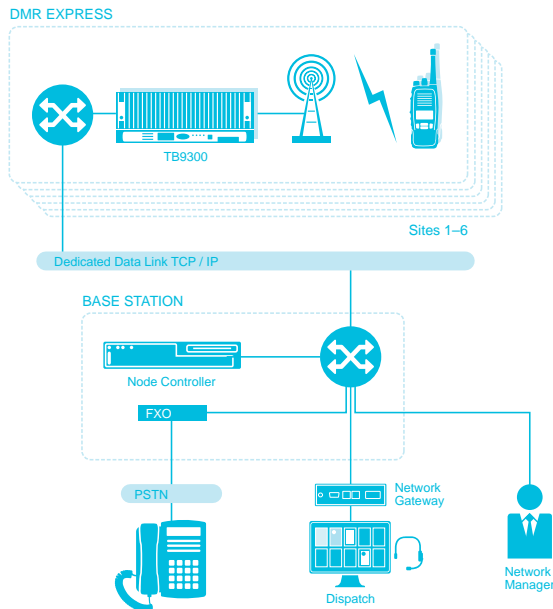
Tait DMR Express

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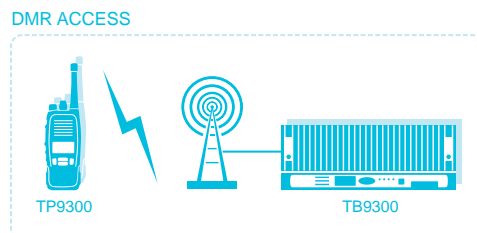
The node enables a wide range of interface options including dispatch, location services, and more advanced data functionality such as OTAP, Packet Data & SCADA.

Tait DMR Express operates up to a total of 24 RF channels in a six-site configuration.



Tait DMR Access

Tait DMR Access is a single-site trunked solution that provides the key benefits of open standard DMR Tier 3. This is provided with a 4RU TB9300 base station (for 1 to 2 RF channel configurations) or up to four base stations at a site (operating up to a maximum of 4 RF channels).



FEATURES	DMR ACCESS	DMR EXPRESS	DMR EXPRESS20	DMR FULL
RF channel capacity	4	24	80	1000
Site capacity	1	6	20	250
Node capacity	0	1	1+HA	20
High Availability (redundant node)	No	No	Yes	Yes
Talk-groups	Yes	Yes	Yes	Yes
Status messaging	Yes	Yes	Yes	Yes
Text messaging	Yes	Yes	Yes	Yes
Caller ID	Yes	Yes	Yes	Yes
Emergency call pre-emption	Yes	Yes	Yes	Yes
GridLink/SCADA support	No	Yes	Yes	Yes
Subscriber roaming	No	Yes	Yes	Yes
Four access priority levels	No	Yes	Yes	Yes
Terminal authentication	No	Yes	Yes	Yes
Device registration protocol	Yes	Yes	Yes	Yes
Dynamic site assignment	No	Yes	Yes	Yes
Critical site assignment	No	Yes	Yes	Yes
Stun (selective radio inhibit)	No	Yes	Yes	Yes
Call queuing	No	Yes	Yes	Yes
Dynamic re-grouping	No	Yes	Yes	Yes
Location Services	No ⁽¹⁾	Yes	Yes	Yes
Statistic records	Yes	Yes	Yes	Yes
Console connection	No ⁽¹⁾	Yes	Yes	Yes
DIP/AIS/SIP Licences for dispatch connection	No	Yes	Yes	Yes
OTAP support	No	Yes	Yes	Yes
DES Encryption	Yes	Yes	Yes	Yes
CALL OPTIONS				
Emergency calls	Yes	Yes	Yes	Yes
Broadcast calls	Yes	Yes	Yes	Yes
Priority calls	Yes	Yes	Yes	Yes
Divert own call	No	Yes	Yes	Yes
Status call	Yes	Yes	Yes	Yes
Group calls	Yes	Yes	Yes	Yes
Individual calls private	Yes	Yes	Yes	Yes
Individual calls to PSTN/PABX	No	Yes	Yes	Yes

DIGITAL MOBILE RADIO (DMR)

Tait DMR is a Tier 3, trunked system that shares the available radio channels among users, and provides benefits such as access control, call queuing, and efficient channel use. DMR provides two TDMA slots over a 12.5 kHz channel, for 6.25 kHz equivalence voice calls. With a constant level of voice quality over a wide range of signal levels, the system utilizes a dedicated control channel as well as status, text, and GPS/AVL messaging.

TAIT COMMUNICATIONS

Tait Communications has decades of experience in Private Mobile Radio systems—trunked MPT 1327 and P25 conventional, trunked and simulcast. Tait has now developed DMR networks based on the DMR standard, an open European Telecommunications Standards Institute (ETSI) standard backed by many leading radio manufacturers. These networks provide efficient digital communications and are a logical replacement for analog MPT trunked networks.

Tait has taken every care in compiling this brochure, but we're always innovating and therefore changes to our models, designs, technical specification, 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.taitradio.com.

Tait Limited facilities are certified for ISO9001:2008 (Quality Management System), ISO14001:2004 (Environmental Management System) and BS OHSAS 18001:2007 (Occupational Health and Safety Management System) for aspects associated with the design, manufacture and distribution of radio communications and control equipment, systems and services. In addition, all our Regional Head Offices are certified to ISO9001:2008.

⁽¹⁾Contact Tait for a customized solution.