

# Tough and resilient DMR Tier 2 conventional node for mission-critical networks.

The Tait TN9300-2 is at the heart of Tait Digital Mobile Radio (DMR) Tier 2 conventional single or multiple site networks.

This reliable node consolidates the control, monitoring and programming of Tier 2 networks as well as providing multiple interfaces for external applications.



## KEY FEATURES

- ▶ Tough design and build with no moving parts, and sealed to limit dust ingress and protection in salt fog environments
- ▶ Resilient and reliable with a 100% processing load in a 65°C ambient environment
- ▶ Low power consumption
- ▶ Software support for single or multisite services
- ▶ Multiple interfaces – AIS, SIP, RIP, API

## FEATURES AND BENEFITS

### Tough, Rugged Enclosure

- ▶ Solid machined block
- ▶ Fan less cooling
- ▶ Solid construction

### Reliability and Resilience

- ▶ No moving parts
- ▶ Solid state drive
- ▶ 100% processing even at 65°C ambient temperatures

### Environmental protection

- ▶ Sealed from dust
- ▶ Protected from salt fog atmospheres
- ▶ Suitable for hostile environments
- ▶ Wide power range

### Low power consumption

- ▶ Energy efficient design
- ▶ Idle power demand 11W
- ▶ Battery backed solution option

### Interfaces

- ▶ Ethernet
- ▶ USB (3)
- ▶ HDMI for future display options

### Single site / single repeater control

- ▶ Provides AIS interface to console
- ▶ Recorder interface
- ▶ Restful applications interface
- ▶ Console pre-emption
- ▶ Emergency support

### Multisite / multi repeater control

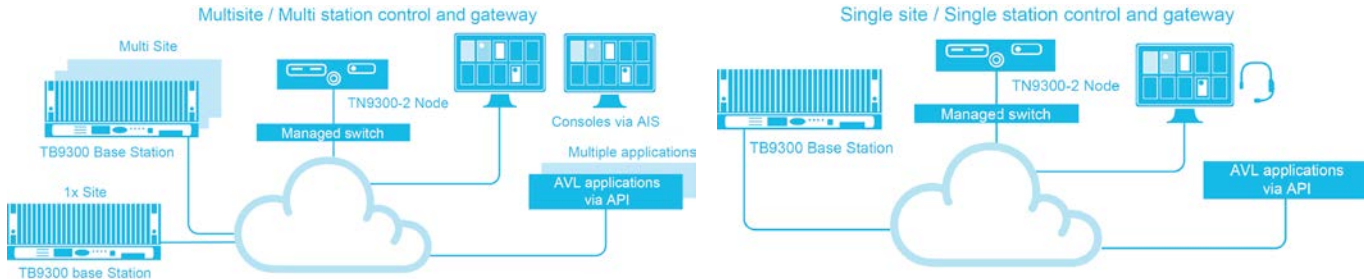
- ▶ Provides AIS interface to console(s)
- ▶ Recorder interface(s)
- ▶ Applications interface(s)
- ▶ Consolidation of monitoring and reprogramming
- ▶ Console pre-emption
- ▶ Emergency support

### Partner support

- ▶ Omnitronics Console over AIS
- ▶ AVL on Omnitronics over monitoring API
- ▶ Eventide voice recorder
- ▶ NextLog

# TN9300-2

## SPECIFICATIONS



**Note:** The TN9300-2 node is not required if RF donor operation is the only control required with a TB9300 DMR Tier 2 base station.

### GENERAL TN9300-2 HARDWARE SPECIFICATIONS

Supported server	Aleutia R50
Standard configuration: RAM and Solid State Drive	8GB RAM and 256GB SSD
Power	11-19V DC: 11W idling, 20W peak
Dimensions	(WxDxH) 164mm x 110 mm x 46 mm
Operating temperature	-15°C to 65°C standard
Water and dust protection	IP54
Weight	1.05Kgs
Processor / speed	Intel® Core™ i3-3217-U, 1.80GHz
Connectivity	1 x 10/100/1000Mbps Ethernet, 3 x USB 2.0 ports, 2 x HDMI ports

### CONNECTIVITY DETAILS

WAN speed to requirement per slot voice and data	32Kbps
WAN jitter	Less than 20mS
WAN Latency (maximum acceptable)	100mS
WAN bandwidth for reprogramming, monitoring, etc	100Kbps
Multisite Capacity	6 Sites extensively tested (require capacity for more contact Tait)
Maximum site repeater capacity	Up to 3 repeaters per site – 6 slots (require capacity for more contact Tait)

### INTERFACE CAPABILITY

Console connectivity	AIS(DMRA standard)
SIP phone interface	SIP
Recorder interface	RIP
Location services application	Tait Monitoring API

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. All specifications shown are typical.

\* Tait cannot guarantee full performance to the published specifications when the radio is operating at frequencies outside the specified range.

For further information please check with your nearest Tait office or authorized dealer.

Tait Limited facilities are certified for ISO9001:2008 (Quality Management System), ISO14001:2004 (Environmental Management System) and ISO18001:2007 (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

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