



# MTS2

Less CapEx and OpEx, More Efficiency!



Compact and lightweight, the Motorola MTS 2 is a deployable TETRA base station offering full feature performance and superb cost efficiency.

With its small and flexible modular design, MTS 2 dramatically reduces installation costs and makes site acquisition easier than ever. Excellent front access and a fan-free cooling capability means low maintenance costs and makes the MTS 2 ideal for rural or inaccessible sites.

The ultra flexible MTS 2 meets a growing demand for small, deployable base stations that ensure site acquisition and installation is as easy and economical as possible.

- Reduced site acquisition costs through lower site requirements, lower maintenance through less site visits and the ability to re-use MTS 2 in different configurations
- Reduced installation costs due to effortless transportability
- MTS 2 fully complies with the new ROHS directive

## Compact Design Optimises Site Space

Smaller, lighter and even more versatile than its predecessor, the MTS 2 is a high performance base station that can be installed in all kinds of locations.

- A worthy successor to the popular MBTS with a more compact design and upgraded features for enhanced performance
- 36% lighter - now only 45 kg for even better portability
- 15 cm narrower allowing convenient fitting into a 19" cabinet

- Impressive efficiency at Tx Power up to 10 Watts with Tx combining or 25 Watts with 2 TX antennas without fans
- High Tx Power of 40 W without Tx combining (25 W with Tx combining)
- Triple Receiver Diversity allowing up to 3 receivers per carrier
- 'Best in Class' receiver sensitivity
- Wide frequency range of 350 – 470 MHz
- Top cable entry and bottom to top cooling airflow allows the cabinet to be placed up against a wall or neighbouring equipment, saving additional space
- Supports a wide range of RFDS configurations with up to 3 receivers per carrier and duplexed receive/transmit antennas. Sites that do not allow multiple antennas can be set up with one single omni antenna pole, avoiding expensive mast constructions and complying with environmental requirements

## Specification Sheet

### Flexible Configuration For Easy System Enhancement

MTS 2 is extremely flexible in its standard configuration.

- Fits conveniently into a 19 inch cabinet, avoiding the need for disassembly, re-racking or re type-approval. This allows the best possible space utilisation and support for both outdoor and shock absorbing transportable enclosures
- Can easily be expanded to a 4 carrier system without having to change antenna installations. Key Parts of MTS 2 can be reused in an MTS 4 cabinet

### Designed for Reliability and Low Maintenance

Featuring the latest materials and components, MTS 2 offers supreme reliability in various conditions plus a modular design including front access for easy servicing

- Because it can disperse heat without fans, MTS 2 is ideal for inaccessible sites and rural areas where maintenance can be expensive and difficult. The fan-free system is very quiet and prevents the build-up of dust and dirt within the base station, further reducing servicing costs
- Required battery capacity and heat dissipation is low due to excellent power efficiency and with a strong integrated battery charger, power supply costs are kept to an absolute minimum
- The 10 Watt configuration is extremely power efficient as MTS 2 does not require fans to handle temperatures from -30 up to 55°C. Equipped with low noise fans, MTS 2 is fully operational up to 60°C at any power level up to 25 Watts after combining or 40 Watts without transmit combining

## Specifications

Up to 2 base radios (8 time slots)

Small & compact: 0.61m x 0.48m x 0.45m [HxDxW]

Weight: App. 45 kg

Temperature range: -30 to +55 °C  
-30 to +60 °C (with fans)

Power: Input power 100/115/230V AC, 50/60Hz and -48V DC  
Power consumption 310 Watt (no fans)  
- 25 Watt transmit power (without Tx combining)  
- 10 Watt transmit power (with Tx hybrid combining)  
Power consumption 640 Watt (with fans)  
- 40 Watt transmit power (without Tx combining)  
- 25 Watt transmit power (with Tx hybrid combining)

X.21 or fractional E1 connection to the central network equipment

E1 redundant site link from System Release 6.1

Frequency range: 350 - 470 MHz

Operating bandwidth: 5 MHz

Dual or triple diversity

Hybrid combiner - offering remote frequency agility, no site visits

Duplexed Rx/Tx reducing the amount of antennas

Best in class receiver sensitivity, at input connector:

120.0 dBm typical (static at 4% BER):

113,5 dBm typical (faded at 4% BER)

Strong integral battery charger saves space and duplicated equipment

Full Front Access and top cable entry – for easy maintenance

Door alarming contacts as standard – for added security

Remote transmit antenna monitoring as standard – for improved availability

Support for 15 external user input alarms – for additional site monitoring

Support for 2 external user output alarms – for additional site control

Remote GPS allows for tunnel or underground housing

No mechanical moving parts (in fan less configuration), ensures greater resilience and reduces maintenance

Resilience supported through Dimetra Local Site Trunking



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