



# MTS4

High Performance, Low Cost of Ownership!



Tough and extremely reliable, the Motorola MTS 4 is a high specification, full redundant TETRA base station offering top performance and superb cost efficiency.

Supporting a wide range of RFDS configurations and capable of handling up to 8 carriers with one Rx/Tx antenna, MTS 4 is a seriously impressive base station for all kinds of antenna sites.

The compact MTS 4 sets new standards for high capacity, high redundancy base stations while ensuring site acquisition and installation costs are as low as possible.

- Reduced site acquisition costs through less antenna site requirements
- Reduced installation costs due to more compact and flexible design
- Reduced site operation costs through less site visits and lower maintenance
- MTS 4 fully complies with the new ROHS directive

## Compact Design Optimises Site Space

Smaller, lighter and even more versatile than its predecessor, the MTS 4 is a high performance base station with improved power efficiency and lower operating costs.

- A worthy successor to the popular EBTS with a more compact design and upgraded features for enhanced performance
- 50% lighter - now only 148 kg for easier installation
- 40 cm lower allowing more flexible fitting options
- 33% less power consumption
- '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
- Sites that do not allow for any receiver diversity can be set up with one single omni antenna pole, avoiding expensive mast constructions and complying with environmental requirements

## Specification Sheet

### High Capacity and High Redundancy

MTS 4 is a powerful and extremely flexible base station with a range of cutting edge features for versatile installation and ultimate control.

- Supports a wide range of RFDS configurations with up to 3 receivers per carrier and duplexed or non-duplexed receive/transmit antennas
- Up to 8 carriers can be combined with just one Rx/Tx antenna
- Full redundancy option with site controller and base radio
- MTS 4 supports hybrid combiners, manual and auto tune cavity combiners

### Designed for Reliability and Easy Maintenance

Featuring the latest power-efficient technology, MTS 4 offers supreme reliability plus excellent access for easy servicing.

- Required battery capacity and heat dissipation is low due to excellent power efficiency and with two strong battery chargers, power supply costs are kept to an absolute minimum
- The 10 Watt configuration is extremely power efficient. Equipped with low noise fans, MTS 4 is fully operational up to 60°C at any power level up to 25 Watts after combining or 40 Watts without transmit combining
- Supports both cost efficient X.21 and E1 infrastructure links

### Totally Secure...Day and Night

No need to worry about theft or vandalism. MTS 4 includes the latest security features for total peace of mind.

- External alarm interface supports 15 alarm inputs and 2 external control outputs
- Lockable door equipped with standard alarm contacts – an effective intrusion detection system

## Specifications

Up to 4 base radios (16 time slots)

Up to 8 base radios (32 time slots) with expansion set

Small & compact: 1.43m x 0.57m x 0.55m [HxDxW]

Weight: App. 148 kg

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

Power: Input power 100/115/230V AC, 50/60Hz and -48V DC

High Tx power 40 W bypassing combiners

Power consumption 600 Watt

- Equipped with 4 Base Radios

- 10 Watt transmit power (after combiner)

Power consumption 1200 Watt

- Equipped with 4 Base Radios

- 25 Watt transmit power (after combiner)

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, duplexed or non-duplexed

Hybrid combiner and Auto Tune Cavity Combiners - offering remote frequency agility, no site visits

Cost and power efficient manual tune cavity combiners for many base radios

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)

Two strong integral battery chargers save space and duplicated equipment

Full Front Access and top cable entry – for easy maintenance

Door alarming contacts as standard – for added security

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

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

Remote GPS allows for tunnel or underground housing

Resilience supported through Dimetra Local Site Trunking



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