



MTS 4

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

✓ Unbeatable '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

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

Technical Data

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 (still an estimate)
Temperature range: -30 to +60 °C (with fans)
Power: Input power 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
Frequency range: 350-433 MHz, 380-470 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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