



MTS4 400 Basestation

High Performance, Low Cost of Ownership!



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

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 through less antenna site requirements
- Reduced installation costs due to a more compact and flexible design
- Reduced site operation costs through fewer site visits and lower maintenance
- MTS 4 fully complies with the 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.
- Fully ready for TETRA Enhanced Data Service (TEDS)
- 50% lighter – now only 148 kg for easier installation
- 40cm 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

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 a strong integrated battery charger, power supply costs are kept to an absolute minimum

- The 10W configuration is extremely power efficient. Equipped with low noise fans, MTS 4 is fully operational up to to 60° C at any power level up to 25W after combining or 40W without transmit combining.
- Supports both cost efficient X.21 and E1 infrastructure links

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)
High Speed Data:	TEDS is only available with High Power base radios
	QAM modulation schemes with 25kHz and 50kHz channel bandwidths supported
	Requires 25kHz and 50kHz channel separations respectively
Power:	Input power 100/115/230V AC, 50/60Hz and -48V DC
	High Tx power 40W bypassing combiners 20W TEDS Tx power bypassing combiners
	Power consumption 760 Watt
	• Equipped with 4 Base Radios
	• 10 Watt transmit power (after combiner)
	Power consumption 1300 Watt
	• Equipped with 4 Base Radios
	• 25 Watt transmit power (after combiner) 10W TEDS 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
	350 – 430 MHz (for TEDS operation)
Operating bandwidth:	5 MHz
Dual or triple diversity, duplexed or non-duplexed	
Hybrid combiner and Auto Tune Cavity Combiner - offering remote frequency agility, no site visits	
Cost and power efficient manual tune cavity combiner 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 charger saves 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 alarms – for additional site control	
Remote GPS allows for tunnel or underground housing	
Resilience supported through Dimetra Local Site Trunking	



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