



DIMETRA EXPRESS

COMMUNICATIONS MADE SIMPLE

DIMETRA Express is a flexible TETRA system. By integrating the switch and base radios in a one-box or modular system it makes it quick and easy to set up, deploy, and manage your communications. Allowing you to simplify everyday operations whilst reducing costs and complexity over the long term.

You can quickly integrate DIMETRA Express into your network using a single IP address, provision multiple subscribers, and complete installation using web browser-based applications and tools. Once it's up and running, DIMETRA Express is easy to manage and operate through the simple web-based network management and dispatch applications.

DIMETRA Express offers the voice, short data, and telephony services your team's demand. And it's expandable to multiple sites, so it can grow as your business does.



DIMETRA EXPRESS
MTS4 TETRA SYSTEM



DIMETRA EXPRESS
MTS2 TETRA SYSTEM



DIMETRA EXPRESS
MTS1 TETRA SYSTEM



KEY FEATURES

- Flexible DIMETRA TETRA solution in one-box or modular system
- Easy to set up and configure with web-based system installer
- Digital radio voice services
- Integrated short data services
- VoIP telephony interconnect services
- Intuitive web-based network management application
- Simple web-based dispatch application
- Easy-to-use web-based system health monitor
- Simple web-based radio control manager
- Efficient web-based text messaging application
- Easy network integration with a single IP address
- Robust and reliable digital radio communications
- Cost effective communication solution
- Easily expandable to additional sites

SPECIFICATIONS

Configurations:

- MTS1 - 1 Base Radio (4 Time Slots)
- MTS2 - 1 Base Radio (4 Time Slots)
- MTS4 - 1 to 3 Base Radios (4 to 12 Time Slots)

TETRA voice services, including group and individual calls

Short Data Services including interface to customer enterprise network

VoIP telephony interconnect

Clear Authentication

Dispatch Console API

Voice Logging API

Web based applications for Microsoft Windows and Android devices (using Chrome browser)

Web based Network Management:

- Basic and advanced view option
- Real-time system health monitor
- Bulk loading of radio users and talkgroups

Web based dispatch console:

- Group PTT
- Individual Call
- Emergency alarm
- Text messaging

Web-Based Radio Control Manager

- Dynamic Group Number Assignment (DGNA)
- Radio Stun

Remote service access (VPN)

Expandable to additional sites with DIMETRA MTS1, MTS2 or MTS4 Base Stations using Ethernet IP network site links

1000+ subscribers

Physical dimensions [HxDxW]:

- MTS1 - 0.597m x 0.206m x 0.263m
- MTS2 - 0.61m x 0.48 x 0.45
- MTS4 - 1.43m x 0.57m x 0.55m
- Express Server - 0.079m x 0.175m x 0.260m

Weight:

- MTS1 - 25.5 kg (Excluding Mounting bracket and Express Server)
- MTS2 - App. 45kg for portability
- MTS4 - App. 148Kg fully equipped
- Express Server - App 3.8Kg

Dual and triple receiver diversity options (MTS1 Dual Diversity Only)

Hybrid Combiner - MTS4 only

Auto tune cavity combiner - MTS4 only

Receiver sensitivity:

- MTS2, MTS4 - 120.0 dBm typical (static at 4% BER)
- MTS2, MTS4 - 113.5 dBm typical (faded at 4% BER)
- MTS1 - 119.5 dBm typical (static at 4% BER)
- MTS1 - 113 dBm typical (faded at 4% BER)

Wide frequency range - 350-470 MHz

Operating bandwidth - 5 MHz

Transmit power - 5 Watt to 40 Watt (configurable)
(MTS1 1 Watt to 10W - Configurable)

Temperature range: -30 to +60C (MTS1 -30 to +55C)

Input Power:

- MTS1, MTS2 and MTS4 - 100/115/230VAC, 50/60Hz, and -48VDC
- Express Server 100-240VAC, 50/60Hz (external power adapter) and 6V to 36VDC

Power consumption:

- MTS1 - 75 to 100 Watt
- MTS2 - 450 Watt maximum when full equipped
- MTS4 - 1100 Watt maximum when full equipped
- Express Server - 60 Watt maximum consumption

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. (MTS2 and MTS4 only)

For more information, please visit: motorolasolutions.com/dimetraexpress

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