MTM5000 SERIES TETRA MOBILE RADIOS
SAFER SMARTER FASTER
ENABLING CURRENT AND FUTURE CRITICAL COMMUNICATIONS
DATA IS GROWING IN IMPORTANCE

When it was introduced the dominant use of TETRA was for voice communications, but the use of TETRA as a data bearer has steadily increased. Beginning with the use of status messaging and text, data over TETRA has evolved into the use of picture messaging, WAP, and database access. TETRA is also being used for machine to machine communication in industries such as power distribution.

TEDS will enrich the data experience for all types of users. For example database access will be faster, and additional data can be accessed such as pictures. Uploads can also be enlarged to include fingerprints, pictures and small video clips.

TRENDS IN TETRA CORE NEEDS

TETRA Systems continue to be deployed in more and more countries supporting Public Safety and Mission Critical operations with secure, reliable, and resilient communications. Motorola has shipped over 2 million TETRA radios to customers around the world.

Users of TETRA require:
- Rapid and reliable call connections
- Rugged terminals to withstand all weather conditions and rough handling
- Secure communications to prevent unauthorised reception or interception
- Resilient systems to withstand sabotage or natural events, and separation from public systems which become overloaded
- User location for safety and efficiency
- Data services, with a migration path to broadband in the future
TETRA ON THE MOVE
WHAT’S NEEDED IN A MOBILE TETRA RADIO
• Rugged and simple to use with an intuitive interface
• Excellent coverage in both urban and rural environments
• Range of installation kits and accessories for use on a variety of vehicles
• Flexible connections to interface with companion devices such as cameras, mobile computers, PDAs
• Options for enhanced security
• Advanced applications for specialised operations

SOFTWARE FEATURES TO CUSTOMISE THE MTM5000
The Motorola mobile radio family has been deployed by many public safety and industrial users. Special applications have been developed to meet the particular needs of these customers which are available for all users. These are just some examples.

Messaging Applications. Special messaging applications are available to increase the speed of communicating with teams. For example, Disaster Alert which is an emergency pre-emptive priority call made by a user alerting a single pre-defined group to the presence of a disaster such as an earthquake or major accident.

Resource Allocation. Call out is an application to determine quickly which mobile units are available to answer a call and to then allocate them to the task.

Optimising the network. GPS service inevitably uses some data capacity, LIP throttling limits the impact of GPS traffic when the network is congested. Secondary Control Channel (SCCH) will increase capacity for data traffic in a TETRA network by opening a second channel. This will help to speed up the flow of GPS and SDS traffic. Network access can be adapted for special needs, either by preventing access for unauthorised users or providing preferential access for special users.

Security. End to End encryption can be enabled on either voice or data services. Stun or Kill will temporarily or permanently disable the radio if stolen from or in the vehicle.

SDS Remote Control. Enables control of one or more terminals from a workstation and a controlling TETRA Radio Over the Air using the PEI interface. For example a local fire controller using a field PC and a controlling MS can increase or decrease volume of an individual radio, or change talk groups. Or a Dispatcher or controller can directly request GPS position of an officer who is not responding to a call.

READY FOR THE FUTURE, THE EVOLUTION OF TETRA AND CRITICAL COMMUNICATIONS
TETRA has continued to evolve since its introduction in 1992 and users have been offered a continuous stream of improvements and enhancements which have increased the functionality, reliability, and value of the TETRA network. During this time the data speeds of TETRA have increased with the introduction of Multi-Slot Packet Data. Now with the introduction of TETRA Enhanced Data Service (TEDS) a further significant increase is enabled. This has come at a time when many users are experiencing the benefits of mobile data using public carriers and PDAs and Smartphones. TEDS will support the migration of many applications across to TETRA networks with the attendant benefits of security and resilience.
MTM5000 SERIES
TETRA MOBILE RADIOS

The Motorola MTM5000 Series TETRA radio has been joined by two new models to give a choice of specifications to match end user profiles and needs.
The MTM5200 is the base model sharing the enhanced audio and receiver sensitivity of the current MTM5400, as well as being TEDS-ready.

The MTM5400 includes high power modes and the Gateway Repeater functionality features required by end users in areas of limited coverage.

The MTM5500 is a highly flexible and capable system radio which permits the installation of multiple control heads and/or the new Telephone Style Control Head up to 40m from the radio.

### MTM5000 SERIES BENEFITS

#### EXTENDED OPERATIONAL RANGE
- Up to 10W transmit power (MTM5400/5500), with class leading receiver sensitivity delivers comprehensive network coverage
- Integrated DMO Gateway, DMO Repeater capabilities (MTM5400/5500), ensure secure and resilient communications where needed most

#### SUPERIOR AUDIO PERFORMANCE
- Next generation audio architecture delivering the loudest and clearest audio performance of any Motorola TETRA mobile available on the market*  

#### HIGH SPEED DATA CONNECTIVITY
- TEDS Ready hardware - with a simple software license upgrade, enables 20x faster data connectivity for accessing back-office systems and databases
- Integrated USB 2.0 PEI, enabling rapid radio programming and standardised interfacing to data terminals and accessories. For additional flexibility, USB host and slave modes are also supported

#### LOW USER MIGRATION COSTS
- Familiar cellular style user interface and VGA colour display for enhanced usability and reduced staff training costs
- Same user interface as market proven MTM800 Enhanced mobile radios
- Re-use of MTM800 Enhanced accessories using GCAI connector

#### ENHANCED END TO END ENCRYPTION OPTIONS
- Integrated hardware for SIM based end to end encryption
- Universal Crypto Module option**

#### ADVANCED TERMINAL MANAGEMENT
- USB 2.0 interface for fast radio programming via Motorola’s integrated Terminal Management solution

#### FLEXIBLE INSTALLATION OPTIONS
- Fully DIN-A compatible and available in Dash, Desk, Remote Head and Motorcycle mount formats
- Supports multiple control heads - an ideal solution for installations in trains, ambulances and fire vehicles where more than one control point might be required

#### RUGGED DESIGN WITH EXCEPTIONAL RELIABILITY
- Includes IP67 control head option (MTM5200/5400), for exposed and challenging environments
- Front and Rear rugged GCAI connector for reliable connection of audio and data peripheral equipment
- Mobile radio and accessories are performance matched for enhanced reliability
- MTM5500 ethernet style connections enable up to 40m separation to either the new eCH Control Head or the Telephone Style Control Head

*Assuming the appropriate audio accessory is used  **Model specific

Combining class leading robustness with a sleek ergonomic design, the discreet Telephone - Style Control Head (TSCH) provides flexibility and ease of operation, making it well suited for in-vehicle applications. Fully compatible with MTM5500 radios, the design attributes of the TSCH ensure uncompromising performance for mission-critical operations.
MTM5000 SERIES
SOLUTIONS

The MTM5000 Series brings an ever wider range of installation options to the operator, with multiple control and expansion head options together with the option of multiple control head installation options up to 40m from the radio, with either the new eCH or the TSCH.

MTM5200 AND MTM5400

EXPANSION HEAD OPTIONS
- Expansion Head Single Std Connection
- Expansion Head Enhanced Std and Auxiliary 25 Pin and RS232

CONTROL HEAD OPTIONS
- Standard Control Head
- Remote Control Head
- IP67 Control Head

INSTALLATION OPTIONS
- Dash Mount - Car, Truck
- Remote Head Mount - Car, Ambulance, Fire Truck
- Desk Mount - Control Centre
- IP67 Mount - Boat, Motorcycle
- User Supplied Terminal
- Data Only Installation

PRODUCT SELECTOR

<table>
<thead>
<tr>
<th>MTM5200</th>
<th>MTM5400</th>
<th>MTM5500</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Control Head</td>
<td>2 Control Heads</td>
<td></td>
</tr>
<tr>
<td>Standard Power</td>
<td>High Power for Low Coverage Areas</td>
<td></td>
</tr>
<tr>
<td>Not Included</td>
<td>Gateway Repeater Included</td>
<td></td>
</tr>
<tr>
<td>TedS and Essential Features</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Essential</td>
<td>High Capability</td>
<td>Premium</td>
</tr>
</tbody>
</table>
MTM5000 SERIES
ACCESSORIES

MTM5500

EXPANSION HEAD OPTIONS

FLEXIBLE EXPANSION HEAD (ETHERNET READY)
2X STD ETHERNET TYPE, ETHERNET SIM READER AND RS232

CONTROL HEAD OPTIONS

FLEXIBLE CONTROL HEAD (eCH)
SUPPORTS EXTERNAL SPEAKERS AND PTT
TSCH (TELEPHONE STYLE CONTROL HEAD)
SUPPORT EXTERNAL SPEAKERS AND PTT

INSTALLATION OPTIONS

MULTIPLE CONTROL HEADS - AMBULANCE, FIRE TRUCK, INCIDENT CONTROL VEHICLE, METRO TRAIN

USER SUPPLIED TERMINAL

ETHERNET TYPE
DATA ONLY INSTALLATION

AUDIO - VISOR MICROPHONE
AUDIO - MOBILE MICROPHONE
AUDIO - MOBILE MICROPHONE
AUDIO - MOBILE MICROPHONE

AUDIO - MOBILE MICROPHONE
AUDIO - MOBILE MICROPHONE
AUDIO - LOUDSPEAKER
MOUNT - DASH OR FLOOR BRACKET

ANTENNAS
ANTENNAS
ANTENNAS
ANTENNAS

ANTENNAS
CONTROL STATION
CONTROL STATION POWER SUPPLY
ALARMS, SWITCHES & CABLES
MTM5000 SERIES INSTALLATION OPTIONS

**MOTORCYCLE***
1. Remote Mount Fixtures
2. Handlebar Controls (PTT Talk Group)
3. Headset Interface QD (Quick Disconnect)
4. Headset (Helmet)
5. Remote Control Head IP67
6. Loudspeaker (External or Internal)
7. Standard Control Head
8. Alternate Microphone (In rear box)
9. Antenna and/or GPS Combination

**POLICE CAR**
1. Dash or Remote Mount Fixtures
2. Loudspeaker
3. Visor Mic
4. PTT (Dash)
5. ALT Microphone (Fist or Handset)
6. Antenna: Wide Range, Roof Mount, Glass, Low Profile Combi
7. Antenna: Mag Mount

**AMBULANCE**
1. Dual Control Head Fixtures (Front)
2. Dual Control Head Fixtures (Back)
3. Visor Mic
4. PTT (Front)
5. PTT (Rear)
6. ALT Microphone (Handset) (Dash)
7. ALT Microphone (Handset) (Rear)
8. Loudspeaker (Dash)
9. Loudspeaker (Rear)
10. Antenna Low Profile

*For information on Covert Motorcycle Installations please contact your local Motorola representative.*
These illustrations show how the radio can be installed in four typical vehicles. In addition there are kits to fit the radio into a wide variety of cars, trucks, trams, control vehicles, control rooms, covert cars and motorcycles, and even boats.
**MODELS - COMPLIANT WITH DIN 75490 (ISO 7736)**

<table>
<thead>
<tr>
<th></th>
<th>MTM5200</th>
<th>MTM5400</th>
<th>MTM5500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dash</td>
<td>Compact radio for fast vehicle installation. N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td>Desk</td>
<td>Compact radio, for use in the office. Optional range of accessories such as desk tray with integrated head phone. N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td>Multiple Remote Control Head</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td>Motorcycle</td>
<td>Environmentally enhanced radio meeting IP67 specification. Suitable for demanding environments such as motorcycle, fire appliance and marine installations. N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td>Expansion head “Databox”</td>
<td>Radio without a control head, for data applications, or customised application development. N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

**GENERAL**

<table>
<thead>
<tr>
<th></th>
<th>Dimensions HxWxD (mm)</th>
<th>Weight Typical (g)</th>
<th>Dimensions HxWxD (mm)</th>
<th>Weight Typical (g)</th>
<th>Dimensions HxWxD (mm)</th>
<th>Weight Typical (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dash and Desk models (Transceiver + control head)</td>
<td>60x188x198</td>
<td>1300</td>
<td>60x188x198</td>
<td>1300</td>
<td>N.A.</td>
<td>60x188x198</td>
</tr>
<tr>
<td>Transceiver only</td>
<td>45x170x169</td>
<td>1070</td>
<td>45x170x169</td>
<td>1070</td>
<td>45x170x169</td>
<td>1070</td>
</tr>
<tr>
<td>Standard control head</td>
<td>60x188x31</td>
<td>230</td>
<td>60x188x61</td>
<td>230</td>
<td>N.A.</td>
<td>60x188x39</td>
</tr>
<tr>
<td>Remote control head</td>
<td>60x188x39</td>
<td>300</td>
<td>60x188x69</td>
<td>300</td>
<td>N.A.</td>
<td>60x188x39</td>
</tr>
<tr>
<td>Motorcycle control head</td>
<td>60x188x39</td>
<td>320</td>
<td>60x188x69</td>
<td>320</td>
<td>N.A.</td>
<td>60x188x39</td>
</tr>
</tbody>
</table>

**USER INTERFACE & DISPLAY**

<table>
<thead>
<tr>
<th></th>
<th>Display</th>
<th>TSCH</th>
<th>Buttons &amp; Keypad</th>
<th>Rotary</th>
<th>Indication</th>
<th>User Interface Languages</th>
<th>User Interface Options</th>
<th>Menu</th>
<th>Contacts Management</th>
<th>Multiple Dialling Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.8”</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>LED</td>
<td>Arabic, Chinese, Simplified, Chinese Traditional, Croatian, Danish, Dutch, English, French, German, Greek, Hebrew, Hungarian, Italian, Korean, Lithuanian, Macedonian, Mongolian, Norwegian, Portuguese, Russian, Spanish, Swedish</td>
<td>User programmable, using ISO 8859-1 character</td>
<td>Tailored to user needs</td>
<td>Cellulite Type</td>
<td>User selects how to dial</td>
</tr>
<tr>
<td></td>
<td>VESA - 640x480 pixels Transflective TFT, 65,000 colours</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>Tri-colour LED</td>
<td>Configurable notification times</td>
<td>N.A.</td>
<td>N/A</td>
<td>Cellulite Type</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Standard &amp; Zoom mode (96 pixels, 4mm high) characters</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>Configurable notification times</td>
<td>Arabic, Chinese Simplified, Chinese Traditional, Croatian, Danish, Dutch, English, French, German, Greek, Hebrew, Hungarian, Italian, Korean, Lithuanian, Macedonian, Mongolian, Norwegian, Portuguese, Russian, Spanish, Swedish</td>
<td>User programmable, using ISO 8859-1 character</td>
<td>Tailored to user needs</td>
<td>Cellulite Type</td>
<td>User selects how to dial</td>
</tr>
<tr>
<td></td>
<td>Integral backlit numeric keypad of 12 keys, with keypad lock option</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Int. keypad versions</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roman, Arabic, Cyrillic, Korean, Chinese, Taiwanese characters</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>Digital</td>
<td>Digital</td>
<td>Digital</td>
<td>Digital</td>
<td>Digital</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Programmable function keys</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 programmable function keys (plus 10 programmable numeric keys)</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4-way navigation key and soft keys</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Emergency button with backlight</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>User configurable shortcuts to menus and common features using “One-Touch-Button” feature</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dual Function</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Talkgroup and volume change with lock option</td>
<td>N.A.</td>
<td>N/A</td>
<td></td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td></td>
</tr>
</tbody>
</table>

**ENVIRONMENTAL SPECIFICATIONS**

- **Operating Temperature (°C)**: -30 to +40
- **Storage Temperature (°C)**: -40 to +65
- **Net in-use - Storage**: ETSI 300-019-1-1 CLASS 1.3
- **Net in-use - Transportation**: ETSI 300-019-1-2 CLASS 2.3
- **Stationary use - Weather**: ETSI 300-019-1-3 CLASS 3.2
- **Protected Locations**: ETSI 300-019-1-5 CLASS 5.2
- **Mobile use - Ground Vehicle Installation**: ETSI 300-019-1-5 CLASS 5.4
- **Rail Certification Environmental**: EN50159:2007 and EN50167:ED. 3.1
- **ELEC**: N.A. (only control head is IP67; transceiver is IP54)
- **Dust and Water Ingress Protection**: IEC60529 Ed. 4.0
- **MIL STD**: MIL-STD-810G Specifications All 11 categories met (or exceeded)
- **International Weather Categories** D against E4

**ELECTRICAL SPECIFICATIONS**

- **Voltage Range**: 10.8 to 15.6 V DC
- **Idle / Rx / Tx @ 10W**: 0.5 / 1.0 / 2.1 (TX 3.4A Peak)
- **Idle / Rx / Tx @ 3W**: 0.5 / 1.0 / 5 (TX 2.5A Peak)
- **Tx - Multi Slot PD (4 slots) @ 5.6W**: 2.3
- **Tx - TDD @ 3W**: Add 0.5A
- **Using USB host**: Add 0.5A

**RF SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>MTM5200</th>
<th>MTM5400</th>
<th>MTM5500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Bands (MHz)</td>
<td>TETRA Release 1</td>
<td>TETRA Release 2</td>
<td>N.A.</td>
</tr>
<tr>
<td></td>
<td>10W, Class 2 Notes: MSCD</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td></td>
<td>3W, Class 3</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td></td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td></td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td></td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
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<tr>
<td></td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
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<tr>
<td></td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
<tr>
<td></td>
<td>N.A.</td>
<td>N.A.</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

*Please refer to the separate specification sheet**  **For availability of other language keypads please contact your local MSI representative.
GPS SPECIFICATIONS

- Simultaneous Satellites: 12
- Mode of Operation: Autonomous or Assisted (1-GPS)
- GPS Antenna: Supports active antenna (4.2V DC supply)
- Autonomous Acquisition Sensitivity: -143 dBm / -173 dBW
- Tracking Sensitivity: -193 dBm / -199 dBW
- Accuracy: <50% probable / <100% probable
- TTFF (HOT Start - Autonomous): <1s
- TTFF (WARM Start - Autonomous): <11s
- TTFF (COLD Start - Autonomous): <36s
- Location Protocols: ETSI Location Information/Protocol (LIP)

DATA SERVICES

- Talkgroups: 2048 (TMO) & 1024 (DMO)
- Scan lists: 40 lists of 20 talkgroups
- Phone book entries: 1000 persons, up to 6 numbers per entry (mobile, office etc.), Max 2000 entries
- Emergency (tailored by users)

VOICE SERVICES

- Trunked Mode (TMO) Services
  - Group call
  - Private call
  - Smart-Security
  - HN/FL Duplex
  - Daisy Chain
  - Encryption
  - Target Address
- Emergency (tailored by users)
- Direct Mode (DMO) Services
  - Group call
  - Private call
  - Individual
  - Smart-Emergency
  - Voice Call
  - Encryption
  - Target Address
- Alarm (status message)

DATA SERVICES

- Status
  - Alias messages: 400 Entries
  - Options: Group call, Private call, Individual
  - Index: 200 Entries (short messages), 40 Entries (long messages of up to 1000 characters)
- Short Data Service (SDS)
  - Cellular-style IFAP predictive text entry
  - Voice Call Interaction
  - Packet Data (PO)
  - TETRA Enhanced Data Service (TEDS)
- TEDS (capable)
  - GMM Channels: 25 kHz and 50 kHz (but not DIPSK channels)
- WAP
  - Integrated WAP Browser (including WAP-PUSH)
- Peripheral Equipment Interfaces (PEI)
  - Interface Protocol
  - Terminal Management

VOICE SERVICES

- Telephone (PABX, PSTN, MS-ISDN)
- DGNA
- Group call (Late Entry, TMO/DMO Mapping)
- Private call (Half / Full Duplex)
- Emergency (status message)
- Target Address
- Location
- Alarm (status message)
- Encryption

DATA SERVICES

- Status
  - Alias messages: 400 Entries
  - Options: Group call, Private call, Individual
- Short Data Service (SDS)
  - Cellular-style IFAP predictive text entry
  - Voice Call Interaction
  - Packet Data (PO)
- TETRA Enhanced Data Service (TEDS)
- WAP
  - Integrated WAP Browser (including WAP-PUSH)
- Peripheral Equipment Interfaces (PEI)
  - Interface Protocol
- Terminal Management

GATEWAY SERVICES

-MTM5000
  - MTM5000
  - MTM5000
- DMO/DMO Gateway
  - N.A.
  - N.A.
  - N.A.
  - N.A.
  - N.A.
  - N.A.
  - N.A.
  - N.A.
  - N.A.
- REPEATER SERVICES
  - N.A.
  - N.A.
  - N.A.
  - N.A.
  - N.A.
  - N.A.
  - N.A.
  - N.A.
  - N.A.
- INTERFACES
  - RS232
  - USB
    - USB 2.0 support for PEI
    - USB 2.0 support for PEI
    - USB 2.0 support for PEI
    - USB 2.0 support for PEI
- SECURITY FEATURES
  - General Purpose
  - User Access Control
  - End-to-End
  - Encryption
  - Regulatory Compliance
- EN 300 394-1
- EN 303 035-1
- EN 303 035-2
- EN 50360:2001
- EN 301 489-18 V1.3.1
- EN 301 489-32 V1.3.1
- EN 301 489-18 V1.3.1
- EN 60950-1 (2001)
- EN 300 394-1
- EN 300 394-2
- EN 300 394-2
- EN 301 489-1 V1.3.1
- EN 301 489-18 V1.3.1
- EN 40950-1 (2001)
- EN 50360:2001
- EN 300 394-1
- EN 300 394-2
- EN 300 394-2
- EN 301 489-1 V1.3.1
- EN 301 489-18 V1.3.1
- EN 40950-1 (2001)
- EN 50360:2001

* Future software release
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