

MTP810 Ex

ATEX TETRA Terminal

High performing communication and user safety



Part of Motorola's market leading range of ATEX TETRA terminals, the MTP810 Ex provides high quality communication with comprehensive user safety when in environments containing potentially explosive atmospheres.

Motorola is a world leader in the development and deployment of TETRA communication solutions, and the MTP810 Ex ATEX TETRA radio delivers safe and reliable communications for users with a powerful set of features to harness the capability of TETRA.

Key Features

High Performing Communication

- Strong rugged design for optimum reliability in harsh conditions
- Powerful, high quality audio in most demanding environments
- Full range of supporting ATEX certified accessories for a customised solution

Comprehensive User Safety

- ATEX & IEC-Ex gas and dust approvals
- Integrated GPS for user location
- Internal "Man Down" alarm

High Performance Communication

The MTP810 Ex delivers best in class audio performance in the typical noisy environments where specialist users from industry or public safety operate.

Comprehensive User Safety

as per its ATEX certificate (i.e., indicated levels of protection). Operational safety is further enhanced with a range of features including:

- State of the art integrated GPS receiver providing the ability to locate personnel through the radio, improving user safety and resource management.
- Internal "Man Down" alert this fully integrated solution triggers an emergency procedure when the carrier of the radio remains motionless for a set period or falls down

Simple but Powerful User Interface

The simplified keypad with large button surface makes the MTP810 Ex easy to use with gloves. Combined with the large scalable display fonts and icons, the MTP810 Ex facilitates operation in difficult environments with limited visibility.

Data Applications Capability

The integrated WAP browser and Multi-Slot packet data enables rapid access to critical information in the field. Applications are further enhanced with the ability to have simultaneous Short Data Service (SDS) and Multi-Slot packet data services via the TNP1 protocol.

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ATEX TETRA HAND PORTABLE

| ATEX SPECIFICATIONS | | | CIFICATIO | | | |
|--|--|--|--|-------------------------------------|---|---|
| ATEX Rating | Gas | II 2G Ex ib IIA T3 | Simultaneous Satellites Mode of Operation | | | <u>}</u> |
| ATEX Hatting | Dust | II 3D Ex ibD 22 IP6x T90°C | Mode of | Operation | | utonomous or sisted (A-GPS) |
| IEC EX Rating | Gas | •••••• | GPS Ante | nna | | tegrated in TETRA |
| IEC EX Hatting | GdS | Ex ib IIA T3 (Approved for Zone 1 & 2, | | | | itenna |
| | | Equipment Group II, Gas Group A, | Sensitivit | У | -1! | 52 dBm / -182 dBW |
| | Temperature Class T3, Ambient | | Accuracy | | 5 meter (50% probable) | |
| | | temp-20°C to +50°C) | Location | Protocols | ETSI LIP | |
| | Dust | Ex ibD 22 IP6x T90oC (Approved for | | | M | otorola LRRP |
| | | Zone 22, Equipment Group II) | VOICE | EDV/IOEC | | |
| | | | Talkgroup | ERVICES | 2048 (TMO) & 102 | 4 (DMO) |
| SPECIFICATIONS | | | Phone Bo | | 1000 persons | + (DIVIO) |
| PHYSICAL | | | Scan List | S | 40 lists, 20 talkgro | ups / list |
| Dimensions (mm) | | 135 x 55 x 38 | TMO Ser | vices | Group Call | Late entry |
| Weight (typ) g | | 400 | | | Private Call | Half / Full Duplex |
| Battery | | 725 mAh, 7,2V | | | Telephony | Full Duplex |
| | | 12 hrs, typ, 5/5/90 duty cycle | DMO 0 | | DGNA | up to 2047 groups |
| RF SPECIFICATIONS | | | DMO Ser | vices | Group Call Private Call | Late entry |
| Frequency Bands (MHz) | | 380 - 430 | | | Compatibility | Gateway & Repeater |
| | | 806 - 870 | Emergen | | Smart Emergency | DMO / TMO / DMO |
| Switching Bandwidth TMO (MHz) | ••••• | 50 (380-430) | 2 | ٠, | ornare Emergency | to TMO |
| 0 | | 19 (TX: 806-825, RX:851-870) | | | Hot Mic | Configurable timers |
| Switching Bandwidth DMO (MHz) | | 50 (380-430) 19 (851-870) | | | Location | Send on emergency |
| RF Channel Bandwidth (kHz) | ••••• | 25 | | | Target Address | Individual or Group |
| Transmitter RF Power | ••••• | 1W | | | Alarm | Emergency Status |
| RF Power Control | • | 3 Steps of 5 dB | Other Services | | Ambience Listenin | g |
| RF Power Level Accuracy | | +/- 2 dB | ••••• | | Transmit Inhibit | ••••• |
| Receiver Class Receiver Static Sensitivity (dBm) | | A & B | DATA SE | BVICES | | |
| Receiver Static Sensitivity (dBm) Receiver Dynamic Sensitivity (dBm) | | 112 minimum, 110 typicai | | Status Messaging Alias Messages 100 | | |
| neceiver bynamic densitivity (dbin) | | -100 milliman, -107 typical | Short Data | | Inbox | 20 messages |
| ENVIRONMENTAL SPECIFICATIONS | 8 | | Service (SE | OS) | Target Address | Individual or Group |
| Operating Temperature (°C) | | -20°C to +50°C | | | | Address |
| | | (Hazardous Environments) | | | Voice Interaction | Send / receive |
| | | -20°C to +60°C (Non-Hazardous Environments) | | | | during calls |
| Storage Temperature (°C) | ••••• | -40°C to +85°C (MIL STD 810 C, D) | Packet Da | ata | Single or Multi Slot | 7.2kbps - 28.8 kbps gross |
| Humidity | ••••• | ETS 300 019-1-7 Class 7.3E | VVAF | | Integrated Openwa WAP 1.2.x and WAI | |
| Dust and Water | | IP65 per IEC 60529 | | | for UDP/IP Stack | 2.0 compatibility |
| Shock, drop and vibration | | ETS 300 019-1-7 Class 5M3 | PEI AT Commands | | | ••••• |
| SECURITY FEATURES | | | | | TNP1; enables simulta | aneous SDS & PD |
| Air Interface Encryption | Algorithms | TEA1, TEA2, TEA3 | | | | |
| | Security Classes | Class1 (clear), Class2 (SCK), | INTERFA | | | |
| | Class3 (DCK, CCK & GCK*) | | RS232 PEI Rugged Accessory | | For connection of data devices For programming and audio accessory | |
| Key Provisioning | Secure provisioning tool (key variable loader KVL) | | Ruggea A | Accessory | connectivity | nd audio accessory |
| | Over the Air Re-keying (OTAR) for SCK and | | ••••• | | Connectivity | |
| Network Access | Class 3 (CCK & GCK*) Temporary Enable / Disable (Stun) | | | | | |
| 140147011 /100000 | Permanent Enable / Disable (Kill) | | | | | |
| Authentication | | d and made mutual by terminal | | | | |
| | | | | | | |
| PERIPHERALS AND ACCESSORIES | A wide reces of a !! - | accordance in available including ATEV | | | | |
| Audio | A wide range of audio accessories is available including ATEX certified speaker mics and headsets. | | | | | |
| Power & Charging | Solutions for desk top charging and multi-way chargers | | | | | |
| Carrying | A range of carrying solutions is available including carry cases, | | | | | |
| , • | carry strap and belt cli | os | | | | |
| Programming | Comprehensive solution | ons available for radio configuration and | | | | |
| | ,, , | y via Motorola KVL, including support for | | | | |
| ••••• | une iviotorola integrate | ed Terminals Management solution | | | | |
| | | | _ | | | |
| | | | Fo | r more information | on please contact your local Mo | torola Authorised Dealer or Distributor |



