

MTP810 Ex

ATEX TETRA Terminal

High performing communication and user safety



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 to tailor customize solution

Comprehensive User Safety

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

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.

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

The MTP810Ex can be used in explosive environments 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 ability to have simultaneous Short Data Service (SDS) and Multi-Slot packet data services via TNP1 protocol.

MTP810 Ex ATEX TETRA Handportable

ATEX SPECIFICATIONS		
	Gas	II 2G Ex ib IIA T3
ATEX Rating	Dust	II 3D Ex ibD 22 IP6x T90°C
150 5V D .:	Gas	Ex ib IIA T3 (Approved for Zone 1 & 2, Equipment Group II, Gas Group A, Temperature Class T3, Ambient temp-20°C to +50°C)
IEC EX Rating	Dust	Ex ibD 22 IP6x T90°C (Approved for Zone 22, Equipment Group II)

Specifications

PHYSICAL			ENVIRONMENTAL SPE	CIFICATIONS	
Dimensions (mm)		135 x 55 x 38	O T (00)	-20°C to	+50°C (Hazardous Environments)
Weight (typ) g		400	Operating Temperature (°C)	-20°C to +60°	C (Non-Hazardous Environments)
Battery		725 mAh, 7,2V	Storage Temperature (°C)	-4	0°C to +85°C (MIL STD 810 C, D)
		12 hrs, typ, 5/5/90 duty cycle	Humidity	E	TS 300 019-1-5 Class 5.1 and 5.2
			Dust and Water		IP64
RF SPECIFICAT	IONS		Shock, drop and vibration		ETS 300 019-1-5 Class 5M2
Frequency Bands (N	ИНz)	380 – 430			
Switching Bandwidtl		50	GPS SPECIFICATIONS		
RF Channel Bandwi		 25	Simultaneous Satellites		12
Transmitter RF Pow		1W	Mode of Operation		Autonomous or assisted (A-GPS)
RF Power Control		3 Steps of 5 dB	GPS Antenna		Integrated in TETRA antenna
RF Power Level Aco	curacy	+/- db 2	Sensitivity		-152 dBm / -182 dBw
Receiver Class		A & B	Accuracy		5 meter (50% probable)
	nitivity (ADms)	-112 minimum, -115 typical	Location Protocols		ETSI LIP
Receiver Static Sen	Silivity (abiii)	-112 IIIIIIIIIIII, -113 typicai			
Receiver Static Sen Receiver Dynamic S		-103 minimum, -107 typical			Motorola LRRP
	Sensitivity (dBm)		DATA SERVICES		
Receiver Dynamic S	Gensitivity (dBm)	-103 minimum, -107 typical	DATA SERVICES	Alias Messages	
Receiver Dynamic S VOICE SERVICE Talkgroups	Sensitivity (dBm) ES 2048 (TMO) & 1024	-103 minimum, -107 typical		Alias Messages	Motorola LRRP
Receiver Dynamic S VOICE SERVICE Talkgroups Phone Book	Sensitivity (dBm) ES 2048 (TMO) & 1024 1000 persons	-103 minimum, -107 typical	DATA SERVICES Status Messaging	Inbox	Motorola LRRP 100 20 messages
Receiver Dynamic S VOICE SERVICE Talkgroups Phone Book Scan Lists	Sensitivity (dBm) SS 2048 (TMO) & 1024 1000 persons 40 lists, 20 talkgroup	-103 minimum, -107 typical (DMO)	DATA SERVICES Status Messaging		Motorola LRRP 100 20 messages Individual or Group Address
Receiver Dynamic S VOICE SERVICE Talkgroups Phone Book Scan Lists	Sensitivity (dBm) ES 2048 (TMO) & 1024 1000 persons	-103 minimum, -107 typical	DATA SERVICES Status Messaging	Inbox Target Address	Motorola LRRP 100 20 messages
Receiver Dynamic S VOICE SERVICE Talkgroups Phone Book Scan Lists	2048 (TMO) & 1024 1000 persons 40 lists, 20 talkgroup Group Call	-103 minimum, -107 typical (DMO) s / list Late entry	DATA SERVICES Status Messaging Short Data Service (SDS)	Inbox Target Address Voice Interaction	Motorola LRRP 100 20 messages Individual or Group Address Send / receive during calls 7.2kbps - 28.8 kbps gross
Receiver Dynamic S VOICE SERVICE Talkgroups Phone Book Scan Lists	Sensitivity (dBm) 2048 (TMO) & 1024 1000 persons 40 lists, 20 talkgroup Group Call Private Call	-103 minimum, -107 typical (DMO) s / list Late entry Half / Full Duplex	DATA SERVICES Status Messaging Short Data Service (SDS) Packet Data	Inbox Target Address Voice Interaction Single or Multi Slot Integrated Openwave b	Motorola LRRP 100 20 messages Individual or Group Address Send / receive during calls 7.2kbps - 28.8 kbps gross
Receiver Dynamic S VOICE SERVICE Talkgroups	Sensitivity (dBm) 2048 (TMO) & 1024 1000 persons 40 lists, 20 talkgroup Group Call Private Call Telephony	-103 minimum, -107 typical (DMO) s / list Late entry Half / Full Duplex Full Duplex	DATA SERVICES Status Messaging Short Data Service (SDS) Packet Data	Inbox Target Address Voice Interaction Single or Multi Slot Integrated Openwave b	Motorola LRRP 100 20 messages Individual or Group Address Send / receive during calls 7.2kbps - 28.8 kbps gross rowser
Receiver Dynamic S VOICE SERVICE Talkgroups Phone Book Scan Lists TMO Services	Sensitivity (dBm) 2048 (TMO) & 1024 1000 persons 40 lists, 20 talkgroup Group Call Private Call Telephony DGNA	-103 minimum, -107 typical (DMO) s / list Late entry Half / Full Duplex Full Duplex up to 2047 groups	DATA SERVICES Status Messaging Short Data Service (SDS) Packet Data WAP	Inbox Target Address Voice Interaction Single or Multi Slot Integrated Openwave b WAP 1.2.x and WAP 2.	Motorola LRRP 100 20 messages Individual or Group Address Send / receive during calls 7.2kbps - 28.8 kbps gross rowser 0 compatibility for UDP/IP Stack
Receiver Dynamic S VOICE SERVICE Talkgroups Phone Book Scan Lists TMO Services	Sensitivity (dBm) 2048 (TMO) & 1024 1000 persons 40 lists, 20 talkgroup Group Call Private Call Telephony DGNA Group Call	-103 minimum, -107 typical (DMO) s / list Late entry Half / Full Duplex Full Duplex up to 2047 groups	DATA SERVICES Status Messaging Short Data Service (SDS) Packet Data WAP	Inbox Target Address Voice Interaction Single or Multi Slot Integrated Openwave b WAP 1.2.x and WAP 2.4 AT Commands	Motorola LRRP 100 20 messages Individual or Group Address Send / receive during calls 7.2kbps - 28.8 kbps gross rowser 0 compatibility for UDP/IP Stack
Receiver Dynamic S VOICE SERVICE Talkgroups Phone Book Scan Lists TMO Services DMO Services	2048 (TMO) & 1024 1000 persons 40 lists, 20 talkgroup Group Call Private Call Telephony DGNA Group Call Private Call	-103 minimum, -107 typical (DMO) s / list Late entry Half / Full Duplex Full Duplex up to 2047 groups Late entry	DATA SERVICES Status Messaging Short Data Service (SDS) Packet Data WAP	Inbox Target Address Voice Interaction Single or Multi Slot Integrated Openwave b WAP 1.2.x and WAP 2.4 AT Commands	Motorola LRRP 100 20 messages Individual or Group Address Send / receive during calls 7.2kbps - 28.8 kbps gross rowser 0 compatibility for UDP/IP Stack
Receiver Dynamic S VOICE SERVICE Talkgroups Phone Book Scan Lists TMO Services DMO Services	Sensitivity (dBm) 2048 (TMO) & 1024 1000 persons 40 lists, 20 talkgroup Group Call Private Call Telephony DGNA Group Call Private Call Compatibility	-103 minimum, -107 typical (DMO) s / list Late entry Half / Full Duplex Full Duplex up to 2047 groups Late entry Gateway & Repeater	DATA SERVICES Status Messaging Short Data Service (SDS) Packet Data WAP PEI	Inbox Target Address Voice Interaction Single or Multi Slot Integrated Openwave b WAP 1.2.x and WAP 2.4 AT Commands	Motorola LRRP 100 20 messages Individual or Group Address Send / receive during calls 7.2kbps - 28.8 kbps gross rowser 0 compatibility for UDP/IP Stack
Receiver Dynamic S VOICE SERVICE Talkgroups Phone Book Scan Lists TMO Services	Sensitivity (dBm) 2048 (TMO) & 1024 1000 persons 40 lists, 20 talkgroup Group Call Private Call Telephony DGNA Group Call Private Call Compatibility Smart Emergency	-103 minimum, -107 typical (DMO) s / list Late entry Half / Full Duplex Full Duplex up to 2047 groups Late entry Gateway & Repeater DMO / TMO / DMO to TMO	DATA SERVICES Status Messaging Short Data Service (SDS) Packet Data WAP PEI SECURITY FEATURES	Inbox Target Address Voice Interaction Single or Multi Slot Integrated Openwave b WAP 1.2.x and WAP 2. AT Commands TNP1; enables simultar	Motorola LRRP 100 20 messages Individual or Group Address Send / receive during calls 7.2kbps - 28.8 kbps gross rowser 0 compatibility for UDP/IP Stack
Receiver Dynamic S VOICE SERVICE Talkgroups Phone Book Scan Lists TMO Services DMO Services	Sensitivity (dBm) 2048 (TMO) & 1024 1000 persons 40 lists, 20 talkgroup Group Call Private Call Telephony DGNA Group Call Private Call Compatibility Smart Emergency Hot Mic	-103 minimum, -107 typical (DMO) s / list Late entry Half / Full Duplex Full Duplex up to 2047 groups Late entry Gateway & Repeater DMO / TMO / DMO to TMO Configurable timers	DATA SERVICES Status Messaging Short Data Service (SDS) Packet Data WAP PEI SECURITY FEATURES	Inbox Target Address Voice Interaction Single or Multi Slot Integrated Openwave b WAP 1.2.x and WAP 2. AT Commands TNP1; enables simultar	Motorola LRRP 100 20 messages Individual or Group Address Send / receive during calls 7.2kbps - 28.8 kbps gross rowser 0 compatibility for UDP/IP Stack eous SDS & PD

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Other Services

RS232 PEI	For connection of data devices
Rugged Accessory	For programming and audio accessory connectivity

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PERIPHERALS AND ACCESSORIES		

Ambience Listening

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 clips
Programming	Comprehensive solutions available for radio configuration and encryption key loading via Motorola KVL, including support for the Motorola Integrated Terminals Management solution

Network Access

Authentication



Over the Air Re-keying (OTAR) for SCK and

Infrastructure initiated and made mutual by terminal

Class 3 (CCK & GCK*) Temporary Enable / Disable (Stun)

Permanent Enable / Disable (Kill)