

ST7000

SMALL TETRA RADIO

The ST7000 small TETRA radio combines a small and discreet form, simple user interface and clear audio. With a hybrid internal and external antenna system, the ST7000 fits easily in a pocket. The touch sensitive buttons, integrated Bluetooth® 4.1 wireless technology, reversible USB-C connector for charging, and 3.5mm audio connector make the ST7000 a flexible, modern TETRA radio.



KEY FEATURES

- Small and discreet design
- Simple and intuitive user interface
- Vibrate alert and haptic feedback for discreet use
- White OLED screen with touch UI for easy navigation
- Loud and clear audio
- 3.5 mm audio connector for maximum accessory compatibility
- Reversible USB-C connector for flexible charging and programming
- Enhanced coverage with 1.8W transmit power
- Durable with IP54 and MIL-STD 810 F/G rating
- Long-life battery with up to 20 hours of use
- Integrated Bluetooth 4.1 wireless technology
- GPS and GLONASS for location services



ST7000 SPECIFICATIONS



GENERAL

| | |
|--------------------------------------|---|
| Dimensions H x W x D | 107 x 60 x 19mm |
| Weight Including Battery and Antenna | 173g |
| Battery | Removable 2300 mAh IMPRES Li-Ion |
| Battery Performance | Duty Cycle 5/5/90 > 20 Hours (380-430MHz) / > 19 Hours (800MHz) |
| | Duty Cycle 5/35/60 > 17 Hours |
| Audio | Speech Loudness at 30cm: 94 Phon |
| | Audio Output Power at Rated / Max: 0.9 W |
| | Audio Distortion at Rated: 1.0 % |

RF SPECIFICATIONS

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|-----------------------------|--|
| Frequency Bands | 380-430 MHz, 800 MHz |
| Transmitter RF | Power Class 3L (1.8W) & Class 4 (1W) |
| Receiver Class | A and B |
| Rx Static Sensitivity (UHF) | UHF: -116dBm (min); -118dBm (typical) 800 MHz: -114dBm (min); -116dBm (typical) |
| Rx Dynamic Sensitivity | UHF: -107 dBm (min); -109 dBm (typical) 800 MHz: -105 dBm (min); -107 dBm (typical) |

ENVIRONMENTAL SPECIFICATIONS

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|-----------------------------------|--|
| Operating Temperature °C | -20 to +55 |
| Storage Temperature °C | -30 to +85 |
| Humidity | ETS 300-019-1-7 Class 7.3E, MIL STD 810 F, G |
| Dust and Water Ingress Protection | IP54 (All Connectors are IP67 Rated) |
| | Dust, Driving Rain Protection |
| Shock, Drop and Vibration | ETS 300-019 1-7 class 5M3; MIL-STD 810 F/G |

MAIN VOICE SERVICES

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| Full Duplex TMO Private, PABX, PSTN, Emergency |
| Half Duplex TMO Private, Group, Emergency |
| Half Duplex DMO Private, Group, Emergency |
| Inter-MNI, Gateway, Repeater Compatible |
| PTT Double Push |
| Adaptive Audio Control (AGC) |

Emergency Call Management

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| Tactical Emergency Group Call to ATTACHED Talkgroup |
| Non-Tactical Emergency Group Call to DEDICATED Talkgroup |
| HOT MIC Emergency - Hands Free in Moments That Matter |
| Emergency Status Msg Sent to Dispatch Console |
| Preemptive Priority Calls |

DMO Repeater and Gateway Services

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| Works with DMO Repeaters and Gateways* |
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BLUETOOTH AUDIO & DATA SERVICES

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|------------------------------|--|
| Bluetooth Versions Supported | Bluetooth 2.1 +EDR, Bluetooth 4.1, Bluetooth Smart (BTLE) |
| Bluetooth Security | Bluetooth 2.1 Introduces Mandatory Encryption with Secure Simple Pairing (SSP), Easier Pairing and Preventing Sniffing / Hacking |
| Bluetooth Audio | HeadSet Profile, Fast PTT with Motorola Solutions Accessories |
| Bluetooth Data Services | Serial Port Profile, Dial Up Networking Profile, Discovery Mode, Generic Access Profile, Generic Attributes Profile (GATT), Heart Rate Profile, Battery Service Profile, Devices Info Profile. |

LOCATION SERVICES

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|--------------------------|------------------------------------|
| Constellations Supported | GPS and GLONASS |
| Simultaneous Satellites | 12 |
| | Integrated Internal Antenna |
| Tracking Sensitivity | -163 dBm |
| Accuracy | < 5metre (50% probable) @ -130 dBm |
| Protocols | ETSI LIP, LRRP |

* Does not work as a DMO repeater.

ST7000 SPECIFICATIONS

USER INTERFACE

Hard Keys

High Tactility PTT

Power / Wakeup Button

Talkgroup Change Rocker Switch

Volume up / down

2 Configurable One Touch Buttons, Extensive List of Functions

Touch User Interface

Touch sensitive menu icons usable with gloves or in the rain

Simplified user interface

Menu editor, simplify and tailor to user needs

Display

PMOLED 128 x 64 pixels, white

Simplified User Interface

Favourite Talkgroups

Favourite Contacts

Bluetooth

Radio Settings

My Info

Language Options

Advanced User Interface

Talkgroups – TMO Folders: 256, TMO Unique: 10,000

Talkgroups – DMO Folders: 128, DMO Groups: 2,000

Talkgroups – Extended Folders: 330, Mixed TMO/DMO Groups: up to 15 groups per folder

Country/Network Code List - up to 100, by contact or talkgroup

Scan Lists - 40 lists of up to 20 groups

Contacts - up to 1000 with 6 numbers per contact (max 2000 unique numbers)

Fast/Flexible Call Set Up / Answer

Multiple Ring Tones possible

Text & Status Messaging

Status Messages sent from programmable button**

SECURITY OPTIONS

Enhanced Security - OTAR/DMO SCK

Authentication (Mutual)

Air Interface Encryption (ETSI / SFPG TEA Algorithms)

Security Class 1, 2, 3 and 3G support

End to End Encryption: Motorola CRYPTR micro Hardware Module

BOS Smart Card support

Permanent Disable (ETSI, V2-Customer Restore)

Temporary Disable (Stun)

DATA & MESSAGING SERVICES

Secondary Control Channel

ETSI and Enhanced AT Commands (including Voice Control and Short Data)

TNP1 - Support simultaneous Packet Data and Short Data Services over PEI

iTM Fleet Management (Remote Programming)

** SDS messaging, Call-out and Object-call features currently not supported.

SMALL AND DISCREET

The ST7000 small TETRA radio combines a discreet form, simple user interface and high quality audio.



For more information, please visit: www.motorolasolutions.com/ST7000

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