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.

Group 1

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

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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

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

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

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

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

Works with DMO Repeaters and Gateways*

BLUETOOTH AUDIO & DATA SERVICES

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

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.

Hybrid Antenna

Talkgroup Selector

LED Power Indicator

Power / Keylock

Microphone

SMALL AND DISCREET

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

LED Coverage Indicator

Full Duplex Earpiece

OLED Display

Group 1

Touch User Interface

Open Speaker Port

P1 Programmable Button /
Emergency Button

Push-to-Talk Button

Volume Control

P2 Programmable Button

3.5mm Audio Jack

USB-C Connector

Microphone

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

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