



SRM1000 TETRA Mobile Radio Technical Data

GENERAL

Operation

Trunked and Direct Mode
Duplex and Half Duplex

Dimensions

Height: 60mm
Width: 180mm
Depth: 175mm (console included)

Frequency Band

370–390MHz, 380–400MHz
410–430MHz, 450–470MHz
806/825 paired with 851/870MHz
Full Bandwidth**

Weight

Console ≈ 200g
Transceiver ≈ 1850g

Power and Audio Output

RF Power output customisable between 10W*
and 30mW in 5dB steps
10W Max Audio Output

Receiver (Class A)

-112dBm static sensitivity
-103dBm dynamic sensitivity

Environmental

Dust & Water to IEC529 IP54
IEC68 Drop & Vibration
Operating Temp -20 to +55°C
Storage Temp -30 to +70°C

Power Supply

13.8V (nominal) 8A max

Diversity

Diversity Antenna available
for enhanced RX performance

* 5.6W at 800MHz

** Not available for 370–390MHz and 806–870MHz

TETRA SERVICES

Voice Services Supported

Full Duplex Calls (to MS and PABX/PSTN)
Half Duplex Calls (individual and group)
Priority Call
Broadcast Calls
Emergency Call (Pre-emptive Priority Call)
Talking Party Identity
Calling Line Identity
DTMF Tone Dialing

Other Services and Features Supported

Status Messaging
Short Data Service Messaging
Circuit Switched Data Calls
Address Book
Message Data Store
Call History
Late Entry
Dynamic Group Number Assignment
External Alert Output
Authentication
Air Interface Encryption (using TEA1 and TEA2)
TX inhibit
DMO Gateway/Repeater Interoperability supported

USER INTERFACE

Rotary On-Off volume control
Menu Navigation Keys
Up/Down Talk Group & Direct Mode
Alphanumeric Keypad
16 Configurable Soft Keys

Emergency Key
Call/Clear keys
Back-lit LCD 6 lines x 20 characters (ISO 8859-1 character set supported)
Multi-coloured LED
Multi-lingual software support for user interface

ACCESSORIES

Fist Microphone
Handset
Handsfree Kit
Local and remote mounting kits

Desk Top Housing
Motorcycle Adapter Kit
RS232 Data and Programming Cable

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SRM1000 Mobile

The flexible SRM1000 Mobile from Sepura offers excellent TETRA performance and incorporates many unique features. The unit delivers reliable, efficient and secure communications for all applications.

UNIQUE FEATURES

Integrated Satellite Positioning Unit [GPS] – one box solution to all voice, data and location requirements. Standard TETRA Short Data Service used to convey location information.

Direct Data Connection – easily accessible standard 9 pin RS232 data connection on console.

Remote Control – 2 wire interface conforms to automotive standard for safe and discreet operations.

Common User Interface with Sepura Portables – consistent interface with Sepura TETRA portables minimises user training requirements.

Diversity Reception – offers enhanced receiver performance using optional second antenna installation.

ALL THE BENEFITS OF TETRA

- Instantaneous call set-up
- Group and individual calls
- Flexible data capabilities
- Duplex and simplex speech

Trunked & Direct Mode support – allows communication with and without infrastructure.

PABX/PSTN (telephone) access – full duplex speech supported for ease of PABX and PSTN calling.

Text Messaging – easy-to-use text messaging adds equivalent functionality of a two-way alphanumeric pager.

Fastest data rate – giving maximum throughput with minimum operational delays. Transparent support of applications using industry standard serial interface and protocols.

Status – simple, but flexible messaging allowing efficient communication of operator status.

Accessories – fist microphone, duplex handset, handsfree kit, local and remote mounting kits, mains power desktop housing, motorcycle kit, programming station.

COST-EFFECTIVE SOLUTIONS

4 into 1 integration – the **SRM1000** provides the functionality of: a digital PMR radio; a cellular phone; an alphanumeric pager and a wireless modem (all with optional encryption) in a single cost-effective terminal.

Integral GPS is also an option.

DEPENDABLE COMMUNICATIONS

High reliability – engineered to handle the toughest user requirements, the mobile meets the IP54 standard.

SUPPORTING THE FUTURE OF TETRA

Simple upgrade path for future enhancements – Sepura's open architecture allows for easy upgrades and support of new features as they become available.

Full band coverage – **SRM1000** offers full 20MHz receive and transmit operation (frequency band depending).

SECURITY

Encryption – the **SRM1000** benefits from the inherent security of TETRA digital communications. For the professional user who requires greater security, there are encryption options available.

Protection against unauthorised use – simple yet secure authentication mechanism ensures access to the system is prohibited to unauthorised users. Remote disable is available if required.

Emergency operation – the **SRM1000** features an easy-to-access alarm key and provides Emergency Call in both TMO and DMO.

EASY TO USE

Intuitive operation of all radio controls – proven through extensive research. Common interface with Sepura TETRA portables minimises user training.

Optimised user interface – featuring large, clear, back-lit display (6 lines x 20 characters).

High quality audio – optimised for best possible speech quality and intelligibility under all usage conditions.

Push-to-Talk operation – the **SRM1000** can be used in the simplest push-to-talk manner, for instant communications.