SRM3500 TETRA Mobile

- 10 Watts RF Power (customisable in TMO or DMO)

- Support for 2 control heads and 2 PEI data ports

- 6 remote soft keys accessed using a 2 wire interface

- Optional GPS module – integral within the transceiver

- Tamper proof or smart card E2E encryption options

Fully featured and configurable mobile radio

The SRM3500 TETRA Mobile radio is the most configurable mobile terminal in the market today. It provides a solution to any operational requirement, thanks to its dual data, dual console and digital IO capabilities. It can be configured for use in many vehicles including cars, motorcycles, trains, ambulances, marine craft and fire appliances. As a standalone transceiver, it can be used as a data modem for telemetry or for remote alarms. All the transceiver interfaces are available for use by third parties

The SRM3500 is based on the 3000 series architecture and provides the same security features. It has been built to address security by optional tamper proof security processors and a smart card connector. E2E encryption can be implemented by a software upgrade.

The Sepura Common User Interface gives dual advantages of easy integration into existing fleets whilst minimising user training. The SRM3500, like all Sepura radios, has a unique feature: all text can be displayed in large format (double normal size) to give better legibility. During an emergency call the display will change colour from red to green to indicate to the user when the terminal is transmitting or receiving.

The SRM3500 has been developed to support all data services currently specified in TETRA, namely Status, SDS, Circuit Mode Data and Packet Data.

The SRM3500 is designed with an integral GPS option. In addition to the standard position reporting, the mobile can send its current GPS location when the emergency call or lone worker alert is initiated. Ensuring that the position of a user is known will enable appropriate resources to be swiftly deployed when assistance is required.

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for more information visit **www.sepura.com**

SRM3500 TETRA Mobile

Key Features

- Up to 12 I/O lines available – all can be activated by or activate status messages
- Support for AT command set
- Two physical data ports enable two data applications to be supported at the same time
- Remote soft key interface
- Transceiver only installation – for remote alarms, telemetry or as a TETRA modem
- Transceiver and console installation – with vehicle, motorcycle, marine or desk mount kits
- Transceiver and Virtual console installation – for 3rd party integrators to control the transceiver direct from a Windows based mobile computer or desk based PC connected via a LAN/WAN
- Transceiver and 2 console installation – for ambulance and fire vehicle installations Transceiver and remote keys installation – for covert and semi-covert use

- Transceiver and Applications Interface Unit – for 3rd party control of the transceiver and user interface
- Fixed desk mount, motorcycle and marine kits
- Common Sepura User Interface on a real or Virtual Console
- Large text mode – designed for easy readability in vehicles
- Optional GPS module – integral within the transceiver
- Emergency Key – separate from other keys
- Colour backlights in emergency calls
- Fully configurable emergency call behaviour including live microphone and status messaging options
- Customisable 'Press and Action' soft keys giving access to 12 different functions with optional help file
- Multi-lingual user interface: Eastern and Western European languages plus Cyrillic, Chinese, Korean and Arabic
- Full set of programming and configuration software tools – SKMS and Radio Manager

TECHNICAL DATA

All specifications are relative to +25°C unless otherwise stated.

Size and Weight
- Transceiver 980g -180mm W x 54mm H x 110mm D
- Console 200g - 187mm W x 64mm H x 30mm D

Frequency Bands
- 300 - 344MHz[1]
- 350 - 372MHz[1]
- 380 - 430MHz
- 440 - 473MHz
- 806/825 paired with 851/870MHz

The Transceiver supports the full 30MHz bandwidth – 50MHz for the 380-430MHz product - and allows Trunked (TMO) and Direct (DMO) mode frequency pairs to be allocated anywhere in the frequency band.

Power
- 10 watt RF Power output (Class 2)
- RF power adjustable in steps of 5dB
- Adaptive Power Control supported

Security
- Fully integrated E2EE hardware solution, enabled by software upgrade only
- Multi-Algorithm support for AES, iDEA and UK specific algorithms
- Additional Tamper Protection option
- Optional integral SIM connector for Smart Card solution

Environmental
- Dust & Water protection to IEC529 IP54
- ETS 300 019 -2-5 drop, vibration and humidity
- Storage Temp -40°C to +85°C
- Operating Temp -30°C to +70°C

Power Supply
- 10.8 to 15.6V DC, typical 13.8V DC

Console Display
- 128 x 64 pixels LCD display with coloured backlights
- Up to 6 lines of 24 characters displayed
- Dual console support

Voice Services Supported
- Full Duplex Calls (to MS and PABX/PSTN)
- Half Duplex Calls (Individual and Group)
- Priority Call
- Emergency Call (Pre-Emptive Priority Calls)
- Talking Party Identity
- Calling Line Identity Presentation
- DTMF Dialling

Data Services
- Status Messaging
- Short Data Service Messaging (SDS Type 4, 140 Characters)
- SDA –Short Data Applications, allow third parties to create and deploy customised applications to the terminal that can interact with a back end system via SDS
- Circuit Switched Data Calls
- Packet Data
- Network performance monitoring
- Optional time stamping of Status and SDS messages
- Text Message Data Store

Other Functions and Features
- Support for 2000 Talkgroups, with any combination of TMO or DMO groups
- Easily managed via Talkgroup folders, 200 folders with up to 75 groups per folder
- Priority group scanning with support for Background groups.
- Fast group Access supports up to 5 TMO and 5 DMO groups.
- Fixed and User Definable Talkgroup Scan Lists

- Dynamic Group Number Assignment including lifetime timers, up to 50 dynamic groups
- Telephone and radio user Address Book
- Home Talkgroup
- Call History
- Late Entry
- Editable Favourites folder
- Authentication – Mutual and SwMI initiated
- Air Interface Encryption TEA1, TEA2, TEA3 and TEA4 supported
- Support for TETRA Security Class 1 (Clear), Class 2 – SCK and Class 3 DCK with OTAR of CCK
- Transmit Inhibit (TXI) with on/off Status messaging
- ETSI compliant PEI port. AT command interface for applications.
- Macro keys – operation of s single key will perform several complex functions
- Real Time Clock
- Missed call indication
- Configurable Call Out feature.
- Covert Mode
- Ambience listening
- DMO Group and Emergency Calls
- DMO Gateway/Repeater Interoperability supported
- Priority Group Scanning
- Background Groups
- Temporary Disable (Stun)
- Permanent Disable (Kill)
- Support for enhanced Site Fallback
- Support for 30 Network Codes

[1] Further information available on request

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