

SRG3500 Mobile Gateway

- 10 Watts RF Power (customisable in TMO or DMO)
- Voice and emergency calls from DMO to TMO
- Voice and emergency calls from TMO to DMO
- Support for 2 control heads and 2 PEI data ports
- 6 remote soft keys via 2 wire interface
- Tamper proof or smart card E2E encryption options



Fully featured and configurable Gateway radios

SRG3500 TETRA Gateway Radio

The SRG3500 Mobile Gateway Radio has all the features and functionality of the SRM3500 Mobile, the most configurable mobile in the market today. The Sepura Common User Interface has been retained on this product, giving dual advantages of easy integration into existing fleets whilst minimising user training

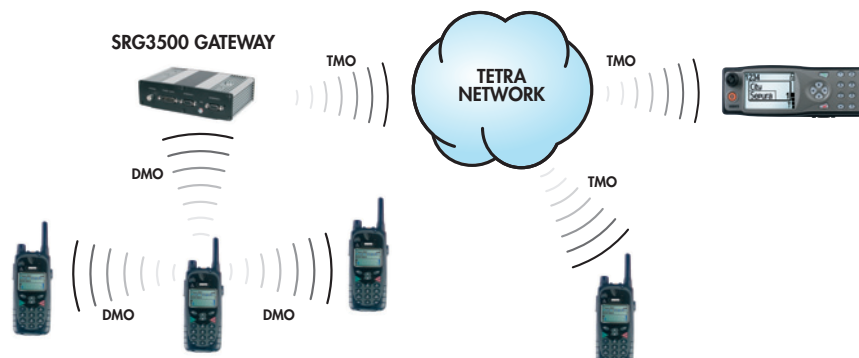
The SRG3500 provides a solution to most operational requirements thanks to its two data ports, dual console and digital I/O capabilities. It can be configured for use in many vehicles including cars, trains, ambulances and fire appliances. As a standalone transceiver, it can be used as a data modem, for telemetry or for remote alarms. All the transceiver interfaces, including the console, are available for use by third parties.

Switching is easily achieved between trunked, direct and gateway modes via either a soft key, from the menu, or from an external device.

The SRG3500 can be customised up to a full 10 Watts RF power in both DMO and TMO modes ensuring that communication between users can be maintained also in areas of poor TETRA coverage. In addition, it can be used to extend a TETRA network where there is no coverage.

The SRG3500 is based on the 3000 series architecture and provides the same security features. The SRG3500 has been built to address security by including tamper proof security processors or a smart card connector. E2E encryption can be implemented by a software upgrade.

The SRG3500 is designed with an integral GPS option. In addition to the standard position reporting, the Gateway 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

SRG3500 Mobile Gateway

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 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
- Large text mode – designed for easy readability in vehicles
- Common Sepura User Interface
- 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: European languages plus Cyrillic, Chinese and Korean
- 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

GPS Receiver - optional

- 12 channel GPS receiver
- - 163 dBW acquisition sensitivity

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

Frequency Bands

- 300 - 344MHz¹
- 350 - 372MHz¹
- 368.5 - 400MHz
- 380 - 414MHz
- 400 - 433MHz
- 440 - 473MHz
- 806/825 paired with 851/870MHz¹

The Transceiver supports the full 30MHz bandwidth and allow 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

Audio

- Rated Audio Output - 8 W @ 1kHz into 4 Ohms

¹ Further information available on request

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

Gateway Services

- Group voice calls from DMO to TMO
- Group voice calls from TMO to DMO
- Emergency group call from DMO to TMO
- Emergency group call from TMO to DMO
- Transmission of Gateway Presence signal
- Monitoring for other Gateways
- Pre-emption (in either direction) of existing call¹
- SDS messaging in either direction¹

Voice Services

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

Data Services

- Status Messaging
- Short Data Service Messaging (SDS Type 4)
- SDS Templates
- Circuit Switched Data Calls
- Packet Data
- 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.
- Call History
- Late Entry
- Authentication – Mutual and SwMI initiated
- Air Interface Encryption TEA1, TEA2, TEA3, TEA4 supported
- Support for TETRA Security Class 1 (Clear), Class 2 - SCK and Class 3 DCK with OTAR of CCK
- Temporary Enable and Disable
- Integrated and SMART Card based E2EE options
- Transmit Inhibit (TXI) with on/off Status messaging
- ETSI compliant PEI port. AT-command interface for applications

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