

SRB

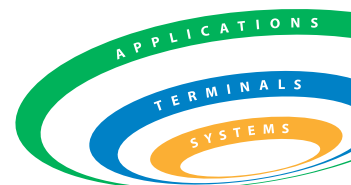
RADIO BOARD



The SRB is a high performance, voice- and data-capable TETRA radio board. It provides a highly flexible and customisable TETRA engine ready to meet the requirements of third-party solution providers.

sepura

Going further in critical communications



EASY INTEGRATION

The SRB is a slim-line TETRA PCB, designed for easy integration within third-party products for a diverse range of applications including automatic meter reading, mobile computing, traffic management systems and telemetry.

FEATURE-RICH

The SRB supports two independent, serial Peripheral Equipment Interfaces (PEI) allowing third-party applications to send and receive information, using voice, multi-slot packet data, circuit mode data, Status or SDS messaging services. Supporting trunked mode operation (TMO) and direct mode operation (DMO), the SRB also offers both individual and group voice

services (where applicable), making it ideal for test and service voice calls to the third-party solutions.

TETRA Air-Interface encryption support is completely managed by the radio board, using standard Sepura configuration tools. This option permits the third-party application to be operated on secure TETRA networks.

HIGH PERFORMANCE

The RF Power is fully customisable up to 1.8 Watts in TMO, DMO and when acting as a DM repeater (frequency-efficient Type 1A option with call participation), delivering reliable communications when most needed and extending coverage beyond the reach of typical radios.

SRB

RADIO BOARD

DIMENSIONS

Height: 124.4mm
Width: 53.6mm
Depth: 11.1mm

FREQUENCY BANDS

380-430MHz: SRB9038

RF PERFORMANCE

RF power: MS power class 3L (1.8 Watts)
RF power customisable for TMO, DMO, and DM-REP²
Adaptive power control supported
Receiver class A and B
Receiver static sensitivity -112dBm
Receiver dynamic sensitivity -103dBm
50 antenna matching

PRODUCT PERFORMANCE

Trunk mode operation (TMO)
Direct mode operation (DMO)
DM-repeater operation (DM-REP)²
Interworking with DM-repeater
Interworking with DM-gateway

PRODUCT OPTIONS

DMO repeater type 1A
Air Interface encryption options¹

FLEET MAPPING

9900 talkgroups in TMO/DMO
5000 talkgroup folders
50 DGNA talkgroups
Background groups
Dynamic group number assignment
OTAR talkgroup management
Scan lists

DATA SERVICES AND APPLICATIONS

Status messaging (in TMO & DMO)
SDS messaging (in TMO & DMO)
Multi-slot packet data
Circuit mode data
Status triggered functions
Transmit inhibit with on/off status messaging
Performance monitoring

VOICE SERVICES

Full duplex calls (to MS & PABX/PSTN)
Half duplex calls (individual & group)
Priority call
Emergency call (pre-emptive priority)
DTMF dialling
MSISDN dialling
DMO individual call
DMO group call
DMO emergency call

SECURITY SERVICES

Authentication
Mutual authentication
Air Interface encryption
Class 1, 2 & 3 TETRA security
DCK plus OTAR of CCK
GCK plus OTAR of SCK

DMO REPEATER SERVICES (LICENCE REQUIRED)

DMO - support for class DM-2C
TEA1/2/3/4 Supported¹
Temporary disable/enable (stun)
Permanent disable (kill)
DMO voice repeated
DMO tone signalling repeated
Group status & SDS repeated
Type 1A efficient operation over one frequency channel
Presence signal support
Emergency call
Monitoring & participation in calls

CONNECTIVITY

TETRA V+D
Dual PEI port
AT command interface
Audio & control lines

¹ - Availability subject to export licence

² - Licensed feature

Sepura's policy is to continually improve its products and services. The features and facilities described in this document were correct at publication, but are subject to change without notice.