

SBM8000

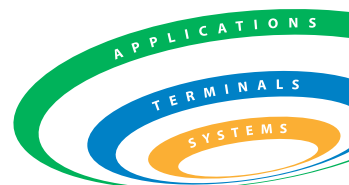
MOBILE RADIO



The SBM8000 is a key part of the Sepura DMR product family. Fully-featured, with excellent audio quality and with both UHF and VHF versions available, it is a vehicle-based and fixed mobile solution for sectors such as transport, security, manufacturing and construction.

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Going further in critical communications



SBM8000

MOBILE RADIO



The solid choice for your move to digital mobile radio

The Sepura Group is a global leader in the design, manufacture and supply of digital radio products, systems and applications for business and critical communications. A market leader in over 30 countries, we have a pedigree that can be traced back over 100 years through well known names such as Phillips and Pye. Our unique DMR product family provides robust, secure solutions for use in harsh environments, utilising open standards to ensure total interoperability for users.

Other key benefits of moving to Sepura DMR include:

- Access to a range of new and existing data applications via the industry-standard peripheral equipment data interface (PEI)
- Sepura product quality and reliability
- Support from a leading global supplier that is dedicated to open standards

The key digital features that the SBM8000 offers include:

- All call – talk to all groups at the same time
- Group call – instant team talking
- Private call – one to one calling
- Busy channel – prevents talking over other users
- Scanning and priority scanning – don't miss any calls on other channels
- Transmit interrupt – override conversations when you need to
- Call alert – an audible tone informs a user of a private call
- Contact list – for easy selection for private calling
- Caller ID – see the identity of who's calling
- Emergency call – configurable alerts
- Remote monitor – remotely hear what users are saying
- End to End encryption – prevents eavesdropping of your communications
- Radio enable/disable/kill – take remote control of lost or stolen radios or undesirable users

Sepura's SBM8000 is an advanced, fully-featured DMR mobile radio. It offers users across a broad spectrum of businesses, local government and industries the advanced functionality, flexibility and robustness that they need for their vehicles on a daily basis. Featuring products in both VHF and UHF frequencies, the Sepura SBM8000 has been designed for users operating in market sectors such as:

- › Construction
- › Facilities management
- › Healthcare
- › Hospitality
- › Logistics
- › Manufacturing
- › Retail
- › Security
- › Sports and leisure
- › Transport
- › Education
- › Municipalities
- › Hotels



KEYPAD MIC



- › GPS – see where your users are
- › Lone Worker – keep your staff safe
- › Man-Down – ensure worker safety
- › Radio check – check which radios are in range
- › Status messages – send updates on activity
- › Text messaging – send basic information
- › Site Link – roam across up to 32 sites when non urgent
- › Zones – for easy selection of user groups
- › Tier II Dynamic – automatically select a free timeslot
- › Vox – make hands-free operation easy
- › Vibrate feature – notifies user of incoming calls

Familiar analogue features are also supported:

- › CTCSS and DCS – reduce shared channel problems
- › 5-tone/Selcall signalling – to ensure that you reach the right person
- › MDC1200 signalling – to make efficient use of your radio channels

Fully-featured, advanced
functionality; flexibility
and robustness

SBM8000

DMR MOBILE RADIO

GENERAL SPECIFICATION

Channel capacity: 1024

Zones: 248

Frequency: **SBM8010/SBM8010H:** 136-174 MHz
SBM8040/SBM8040H: 400-470 MHz
SBM8050/SBM8050H: 450-520 MHz

Channel spacing: 12.5kHz, 20kHz, 25kHz (analogue)
12.5kHz (digital)

Dimensions: 60 x 177 x 184mm

Weight: 1500g

Power supply: 13.6V DC (min 10.6V, max 15.6V)

Current drain: 800mA Standby
2A Rx
11A Tx 25W
14A Tx 40W

LCD: 1.77" TFT (keypad models)

Multiple language capability

Antenna connector: BNC 50Ω

RECEIVER

Frequency stability: ± 1.5ppm

Analogue sensitivity: <-118dBm (12dB SINAD)

Digital sensitivity: <5% BER @-120 dBm

Intermodulation rejection: TIA-603 70dB
ETSI 65dB

Adjacent channel selectivity analogue:

TIA-603 60dB@12.5kHz 70dB@20/25kHz
ETSI 60dB@12.5kHz 70dB@20/25kHz

Adjacent channel selectivity digital:

TIA-603 60dB@12.5kHz
ETSI 60dB@12.5kHz

Spurious rejection: TIA-603 75dB
ETSI 70dB

Conducted/radiated emissions:

-57dBm(≤1GHz) -47dBm(>1GHz)

Rated audio: >2W

Distortion at rated audio: <3%

Audio frequency response:

TIA-603: 300Hz-3kHz, +1/-3dB

Hum & noise: -43dB

Optional GPS time to first fix: <60 seconds (cold start)
<10 seconds (hot start)

TRANSMITTER

Frequency stability: ± 1.0ppm

Power: **Low power** 5-25W
High power 25-40W (UHF)
25-45W (VHF)

Modulation limiting: ±2.5kHz@12.5kHz
± 4kHz @ 20kHz
±5kHz @ 25kHz

Conducted/radiated emissions: -36dBm (≤1GHz)
-30dBm (>1GHz)

Adjacent channel power: ETSI: -60dB

Audio frequency response: 300Hz-3kHz +1/-3dB

Audio distortion: <3% at 60% deviation (analogue)
<0.5% at 5% BER (digital)

Digital vocoder: AMBE+2

Digital protocol: ETSI 102 361-1, -2, -3, & -4

ENVIRONMENTAL

Operating temperature: -30°C to 60°C*

Storage temperature: -40°C to 85°C

Dust & water protection: IP54

Environmental testing: MIL-STD 810G
(humidity, pressure, solar radiation,
salt fog, shock drop & vibration, etc.)

*CE compliance -20°C to 55°C

YOUR APPROVED SEPURA DMR PARTNER

Sepura's policy is to continually improve its products and services.

The specifications, features and facilities described in this document were correct at publication, but are subject to change without notice.

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DMR
DIGITAL MOBILE RADIO ASSOCIATION