SBM**8000**

DMR MOBILE RADIO

GENERAL SPECIFICATION

Channel capacity:	1024
Frequency:	136-174MHz 400-470MHz
Dimensions:	60 x 177 x 184mm
Weight:	1500 g
Power supply:	13.6V DC (min 10.6V, max 15.6V)
Current drain:	800mA (standby) 2A (Rx@rated audio) 11A (Tx @ 25W) 14A (Tx @ 40W)
LCD:	1.77"TFT
Zones:	248
Multiple language capability	

RECEIVER

Channel spacing:	12.5kHz, 20kHz, 25kHz (analogue) 12.5kHz (digital)
Frequency stability:	± 1.5.ppm (-30°C - +60°C)
Analogue sensitivity:	-118dBm (12dB sinad)
Digital sensitivity:	<5%BER @ -120dBm
Intermodulation rejection:	TIA-603 -70db @12.5/20/25KHz ETSI -65db@12.5/20/25KHz
Adjacent channel selectivity (analogue):	TIA–603 -60dB @12.5KHz TIA–603 -70dB @20/25KHz ETSI -60dB @12.5KHz ETSI -70dB @20/25KHz
Adjacent channel selectivity (digital):	TIA – 603 -60dB @12.5KHz ETSI -60dB @12.5KHz
Spurious rejection:	TIA-603 -75db @12.5/20/25KHz ETSI -70db @12.5/20/25KHz

RECEIVER (continued)

Rated audio:	>2W
GPS:	TTFF – <60 seconds (cold start), <10 seconds (hot start)

TRANSMITTER

Power output:	25W, 40W, 45W
Modulation limiting:	±2.5kHz @ 12.5KHz, ±4kHz @ 20KHz, ±5kHz @ 25KHz
Conducted / radiated emissions:	-36dBm (<1GHz), -30dBm (>1GHz)
Adjacent channel power:	70dB (analogue), 60dB (digital)
Audio response:	300Hz – 3kHz, +1/-3dB
Audio distortion:	<0.5% at 60% deviation (analogue) <0.5% @ 5% BER (digital)
Digital Protocol:	ETSI-TS102 361-1, -2 & -3
Digital Vocoder:	AMBE2+

ENVIRONMENTAL

Operating temperature:		-30°C to +85°C
Storage temperature:		-40°C to +85°C
Humidity:	**MIL std:**	810 C, 810 D, 810 E, 810 F, 810 G
Environmental protection rating:		IP54
MIL std:		810 C, 810 D, 810 E, 810 F, 810 G
Shock, drop & vibration:		ETS 300-019-2-7
Drop, vibration and humidity:		ETS 300-019-2-5

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DMR
DIGITAL MOBILE RADIO ASSOCIATION

SBM**8000**

DMR MOBILE RADIO

DMR
DIGITAL MOBILE RADIO ASSOCIATION

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.

sepura

Going further in critical communications

APPLICATIONS
TERMINALS
SYSTEMS

SBM**8000** DMR MOBILE RADIO

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

SBM8000 DMR MOBILE RADIO

The solid choice for your move to digital mobile radio

Sepura has a pedigree that can be traced back, through well-known names such as Phillips and Pye, over 100 years in radio communications. The company has been a world leader in the digital sector for over 15 years. We have already shipped over one million digital radios, have a global footprint and are the market leader in many countries around the world. Built on providing robust, secure solutions for use in tough, harsh environments and utilising open standards to ensure total interoperability for users, Sepura's unique DMR product family remains true to these principles and provides a total DMR solution.

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 and allow approved users to respond
- Broadcast Call – send to everyone 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 Inhibit – prevents co-channel interference
- 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
- Dual Capacity Direct Mode – two simultaneous conversations on a simplex channel

- Emergency Call – takes priority
- Emergency Call & Live Mic – takes priority with hands free
- 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
- GPS – see where your users are
- Lone Worker – keep your staff safe
- Radio Check – check which radios are in range
- Status Messages – send updates on activity
- Text Messaging – send basic information when non-urgent
- Zones – for easy selection of user groups

Familiar analogue features are also supported:

- CTCSS – 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.