

STP8X SERIES HAND-PORTABLES



DIMENSIONS

Height: 139mm
 Width: 61mm/54mm
 Depth: 44mm
 Weight: ≤338g
 Frequency bands:
 380-430MHz: STP8X038 (full keypad)
 STP8X138 (reduced keypad)
 407-473MHz: STP8X040 (full keypad)
 STP8X140 (reduced keypad)

POWER SUPPLY

7.6V (nominal) lithium polymer battery pack
 Intelligent reporting battery
 1400mAh battery

INTERNATIONAL IECEx SPECIFICATIONS

IEC 60079-0 : 2017
 Edition: 7.0
 IEC 60079-11 : 2011
 Edition: 6.0
 Gas Environment = Ex ib IIC T4 Gb
 (-20°C ≤ T_a ≤ +55°C)
 > Protection by Intrinsic Safety: Ex ib (1 countable fault)
 > Gas group: IIC (and all lower groups IIB and IIA)
 > Temperature class: T4 (135°C (max. internal surface temp) and all lower groups T3, T2 and T1)
 > Equipment protection level: Gb (Gas Zone 1 and 2)
 > (-20°C ≤ T_a ≤ +55°C) identifies that the product achieved all certification conditions whilst the ambient temperature varied between these temperature extremes

Dust environment = Ex ib IIIC T90°C Db (-20°C ≤ T_a ≤ +55°C)
 > Protection by Intrinsic Safety: Ex ib (one countable fault)
 > Dust group: IIIC (conductive dust and all lower groups IIB and IIIA)
 > Temperature: 90°C (max. temperature case could reach)
 > Equipment protection level: Db (dust zone 21 and 22)
 > (-20°C ≤ T_a ≤ +55°C) identifies that the product achieved all certification conditions whilst the ambient temperature varied between these temperature extremes

ATEX SPECIFICATIONS

EN 60079-0: 2018
 EN 60079-11: 2012
 Gas environment = Ex II 2G Ex ib IIC T4 Gb
 (-20°C ≤ T_a ≤ +55°C)
 > Equipment group: II
 > Equipment category: 2 (Suitable for use in gas zones 1 and 2)
 > Protection by Intrinsic Safety: Ex ib (1 countable fault)
 > Gas group: IIC (hydrogen and the lower classes including IIB – Ethylene & IIA – Propane)
 > Temperature class: T4 (135°C (max. internal surface temp) and all lower groups T3, T2 and T1)
 > Equipment protection level: Gb (gas zones 1 and 2)
 > (-20°C ≤ T_a ≤ +55°C) identifies that the product achieved all certification conditions whilst the ambient temperature varied between these temperature extremes
 Dust environment = Ex II 2D Ex ib IIIC T90°C Db (-20°C ≤ T_a ≤ +55°C)
 > Equipment group: II
 > Equipment category: 2 (suitable for use in zones 21 and 22)
 > Protection by Intrinsic Safety: Ex ib (1 countable fault)
 > Dust group: IIIC (conductive dust & all lower groups IIB and IIIA)
 > Temperature: 90°C (max. temperature case could reach)
 > Equipment protection level: Db
 > (-20°C ≤ T_a ≤ +55°C) identifies that the product achieved all certification conditions whilst the ambient temperature varied between these temperature extremes

VOICE SERVICES

Full duplex calls (to MS and PABX/PSTN)
 Half-duplex calls (individual and group)
 Priority call
 Emergency call (pre-emptive priority)
 Intelligent alarm reporting
 Talking party identity
 Calling line identity presentation
 DTMF dialling⁵
 MSISDN dialling⁵

DTMF post-dial tone entry (full-keypad version only)
 Dynamic group number assignment
 Background (hidden) groups
 DMO individual call
 DMO group call
 DMO emergency call
 DMO intelligent emergency call
 TMO/DMO independent volume control
 Ambiance listening
 Privacy mode
 Whisper mode
 Group focus

DATA SERVICES AND APPLICATIONS

Status messaging (in TMO and DMO)⁵
 SDS messaging (in TMO and DMO)⁵
 Concatenated SDS messaging⁵
 Multi-slot packet data
 TETRA pager and call-out
 WAP browsing
 Radio applications
 Image and map storage on memory card
 Lone Worker feature
 Missed event application, indicator and soft key
 Auto-capitalisation on SDS text entry (full-keypad version only)
 Circuit mode data
 Up to 30 quick status messages

LOCATION-BASED SERVICES

GPS integrated option
 GPS-based compass
 Bluetooth location system compliant
 Over-the-Air GPS reporting using the following protocols:
 > ETSI location standard reporting (LIP)
 > NMEA
 > Sepura compact messaging

SECURITY SERVICES

Authentication
 Class 1, 2 and 3 TETRA security
 Air Interface encryption
 TEA1/2/3/4 supported²
 SMART card E2E encryption support²
 BOS and Sectra smart card support²
 E2E encryption support²

DMO REPEATER SERVICES (LICENCE REQUIRED)

DMO voice repeated
 DMO tone signalling repeated
 Group status and SDS repeated
 Type 1A efficient operation over one RF channel
 Presence signal support
 Emergency call
 Monitoring and participation in calls

PRODUCT OPTIONS

Bluetooth
 GPS

sepura

Going further in critical communications

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.

0008_0422_V11_ENG
 Copyright © 2022 Sepura Limited. All rights reserved.
 For more information visit [sepura.com](https://www.sepura.com)

Micro SD card (up to 4Gb supported)
Man-Down alarm³
DMO repeater type 1A
Air Interface encryption options
E2E encryption options
Wide range of languages and
keymats supported⁶

DISPLAY AND USER INTERFACE

Large 30 x 38mm active LCD area
Hi-resolution display (176 x 220 pixels)
Transflective TFT display, 262K colours
Normal, large and very large text options
16 configurable soft keys (full-keypad)/seven
configurable soft keys (reduced-keypad) (+
emergency key)
Two context keys
Call history
Phone book (2000 entries)
9900 talkgroups in TMO/DMO
5000 multi-level talkgroup folders
Intelligent search facility
Quick groups
Transmit inhibit with on/off status messaging
Fixed and definable scan lists
Remaining charge-time indication
Missed call indicator
Large, tactile keypad
Intuitively-enhanced user interface
Choice of three user interface styles:
compatibility, list and grid modes
Sepura Picture Message
Smart menu

RF PERFORMANCE

RF power: MS power class 4 (1W)
RF power: customisable for TMO/DMO/REP
Adaptive power control supported
Receiver class: A and B
Receiver static sensitivity -112dBm (-115dBm
typical)
Receiver dynamic sensitivity -103dBm
(-106dBm typical)

PRODUCT PERFORMANCE

Voice audio 1W⁴
Operational temperature -20°C to 55°C
Storage temperature -40° to 85°C¹
Dust and water protection IP67 (dustproof,
waterproof and submersible)
Shock, drop and vibration ETS 300 019

ACCESSORIES

STP8X advanced RSM
STP8X advanced RSM (Peltor interface)
STP8X large button PTT
STP8X lightweight headset with PTT
STP8X in-ear headset with PTT
STP8X throat mic headset
STP8X skull mic headset
STP8X lightweight boom headset
STP8X heavy duty headset
STP8X heavy duty helmet headset
STP8X Scorpion headset
STP8X USB programming lead
STP8X hard leather case

STP8X hard leather case flap
STP8X holster case
STP8X lightweight case
STP8X shoulder strap
STP8X extended belt loop
STP8X Klickfast stud kit
STP8X RF/GPS antenna
STP8X Klickfast stud
STP8X belt clip
STP8X spare RUSC cover
STP8X single pocket desktop charger
STP8X six-way charger PSU and interconnects
STP8X in-vehicle charger

- 1 – As defined in ETSI EN300 019-2-1 and EN300 019-2-2
- 2 – Availability is subject to export licence
- 3 – The Man-Down alarm should in no way be regarded as a substitute for compliance with appropriate risk assessment and other safety procedures or practices
To enable Man-Down, a software licence is required
- 4 – Using internal STP8X speaker
- 5 – Reduced-keypad variant uses Sepura pseudo-keyboard text entry
- 6 – Reduced-keypad version supports multiple languages on one keymat. Full-keypad version supports multiple languages and localised keymats

sepura

Going further in critical communications

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.



0008_0422_V111_ENG
Copyright © 2022 Sepura Limited. All rights reserved.
For more information visit [sepura.com](https://www.seapura.com)