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: 2011
Edition: 6.0
IEC 60079-11: 2011
Edition: 6.0
Gas Environment = Ex ib IIC T90°C Db (-20°C ≤ Ta ≤ +55°C)
Protection by Intrinsic Safety: Ex ib (one countable fault)
Dust group: IIIC (conductive dust & all lower groups IIIB & IIIA)
Temperature: 90°C (max. temperature case could reach)
Equipment protection level: Db (dust zone 1 & 2)
-20°C ≤ Ta ≤ +55°C identifies that the product achieved all certification conditions whilst the ambient temperature varied between these temperature extremes

ATEX SPECIFICATIONS
EN 60079-0: 2012+A11: 2013
EN 60079-11: 2012
Gas environment = Ex ib II 2G Ex ib IIC T4 Gb (-20°C ≤ Tc ≤ +55°C)
Equipment group: II
Equipment category: 2 (Suitable for use in gas zones 1 & 2)
Protection by Intrinsic Safety: Ex ib (1 countable fault)
Gas group: IIC (hydrogen & lower classes including IIb – Ethylene & IIa – Propane)
Temperature class: T4 (135°C (max. internal surface temp) & all lower groups T3, T2 & T1)
Equipment protection level: Gb (gas zones 1 & 2)
-20°C ≤ Ta ≤ +55°C identifies 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 ≤ Ta ≤ +55°C)
-20°C ≤ Ta ≤ +55°C identifies the product achieved all certification conditions whilst the ambient temperature varied between these temperature extremes

VOCAL SERVICES
Full duplex calls (to MS & PABX/PSTN)
Half-duplex calls (individual & group)
Priority call
Emergency call (pre-emptive priority)
Intelligent alarm reporting
Talking party identity
Calling line identity presentation
DTMF dialling
MSISDN dialling
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/DMSO independent volume control
Ambience listening
Privacy mode
Whisper mode
Group focus

DATA SERVICES & APPLICATIONS
Status messaging (in TMO & DMO)¹
SDS messaging (in TMO & DMO)²
Concatenated SDS messaging²
Multi-slot packet data
TETRA pager & call out
WAP browsing
Radio applications
Image & map storage on memory card
Lone Worker feature
Missed event application, indicator & 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:
ETS location standard reporting (LIP)
NMEA
Sepura compact messaging

SECURITY SERVICES
Authentication
Class 1, 2 & 3 TETRA security
Air Interface encryption
TEA1/2/3/4 supported
SMART card E2E encryption support²
BOS & Sectra smart card support²
E2E encryption support²

① CAN/CSA C22.2 No.213-15
UL 60079-0, 6th Ed, Rev. July 26, 2013
UL 60079-11: 2014
CAN/CSA C22.2 No. 60079-0:15 Rev, October 2015
CAN/CSA C22.2 No. 60079-11:14

CAN/CSA C22.2 No.213-15
UL 60079-0, 6th Ed, Rev. July 26, 2013
UL 60079-11: 2014
CAN/CSA C22.2 No. 60079-0:15 Rev, October 2015
CAN/CSA C22.2 No. 60079-11:14
DMO REPEATER SERVICES ( LICENCE REQUIRED) 

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

PRODUCT OPTIONS

Bluetooth
GPS
Micro SD card (up to 4Gb supported)
Man-Down alarm²
DMO repeater type 1A
Air Interface encryption options
E2E encryption options
Wide range of languages & keymats supported⁶

DISPLAY & USER INTERFACE

Large 30x38mm active LCD area
Hi-resolution display (176 x 220 pixels)
Transflective TFT display, 262K colours
Normal, large & 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 & 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 & 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 & 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 & water protection IP67 (dustproof, waterproof & submersible)
Shock, drop & 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 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 & 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’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.