

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 T4 Gb
 (-20°C ≤ T_a ≤ +55°C)
 › Protection by Intrinsic Safety: Ex ib (1 countable fault)
 › Gas group: IIC (& all lower groups IIB & IIA)
 › Temperature class: T4 (135°C (max. internal surface temp) & all lower groups T3, T2 & T1)
 › Equipment protection level: Gb (Gas Zone 1 & 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 & all lower groups IIB & IIIA)
 › Temperature: 90°C (max. temperature case could reach)
 › Equipment protection level: Db (dust zone 21 & 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: 2012+A11: 2013
 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 & 2)
 › Protection by Intrinsic Safety: Ex ib (1 countable fault)
 › Gas group: IIC (hydrogen & the 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 ≤ 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 & 22)
 › Protection by Intrinsic Safety: Ex ib (1 countable fault)
 › Dust group: IIIC (conductive dust & all lower groups IIB & 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

HAZARDOUS LOCATIONS SPECIFICATIONS

Class I & II, Division 2, Groups A-G, Class III, Division 1 & 2, T4
 (-20°C ≤ T_a ≤ +55°C)
 Ex ib IIC T4 (-20°C ≤ T_a ≤ +55°C)
 Ex ib IIIC T90°C (-20°C ≤ T_a ≤ +55°C)
 ANSI/ISA 12.12.01-2015

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

VOICE 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 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 & APPLICATIONS

Status messaging (in TMO & DMO)⁵
 SDS messaging (in TMO & DMO)⁵
 Concatenated SDS messaging⁵
 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:
 › ETSI location standard reporting (LIP)
 › NMEA
 › Sepura compact messaging

SECURITY SERVICES

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

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Going further in critical communications

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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 alarm³
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 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 & 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

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