

STP9100 SERIES HAND-PORTABLE



DIMENSIONS

Height: 133mm
Width: 61mm (54mm)
Depth: 32mm (standard battery)
Depth: 37.5mm (high-capacity battery)

WEIGHT

With standard battery: 250g
With high-capacity battery: 275g

FREQUENCY BANDS

380-430MHz – STP9138
407-473MHz – STP9140
806-870MHz – STP9180

POWER SUPPLY

7.4V (nominal) lithium polymer battery packs
Intelligent reporting batteries
1160mAh standard battery
1880mAh high-capacity battery

RF PERFORMANCE

RF Power: MS power class 3L (1.8 Watts)
RF Power customisable for:
TMO/DMO/repeater
Adaptive Power Control supported
Receiver class: A & B
Receiver static sensitivity - 112dBm
(-115dBm typical)
Receiver dynamic sensitivity - 103dBm
(-106dBm typical)

PRODUCT PERFORMANCE

Audio power: >1 Watt
Operational temperature (conformance tested):
-20°C to +60°C
Operational temperature: (min./max.)
-30°C to +65°C⁴
Storage temperature: -40°C to +85°C¹
Dust & water protection to both IP67 & IP65
(waterproof, submersible, sprayproof & dustproof), plus tested for complete 8hr shifts
'in the pouring rain'
Shock, drop & vibration ETSI 300 019
Salt fog: MIL810E 509.4(I); duration 24hr salt⁵
Salt water: submersion, rated at 1m depth for 30 minutes⁵

PRODUCT OPTIONS

GPS
Man-Down alarm³
DMO repeater type1A
Air Interface encryption options
End-to-End encryption options
Wide range of languages supported
MicroSD card
Coloured bezels
Smart card support

RFID performance

Internal tag – HITAG S2048, short range, 125KHz, ISO11784 & ISO11785 compliant
Range: 1cm from back of individual radio box pack
User accessible storage – 512 bits, Passive
technology pre-programmed (user can overwrite)
32 bit unique identifier
Serial number
Hardware code
TEI

DISPLAY AND USER INTERFACE

Large 30x38mm active LCD area
Hi-resolution display (176 x 220 pixels)
Transflective TFT display, 262K colours, Normal, large & very large mode text
Four configurable feature activation keys
Vibrate call/message
Two context keys
Call history
Phonebook (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
Intuitively-enhanced user interface
Choice of three user interface presentation styles

(compatibility, grid & list mode)
Haptic technology
Twist and zoom portrait image viewer
Wake-on-Alarm feature
Sepura Picture Message
Smart menu
(compatibility, list and grid)
Wake-on-Alarm function
Sepura Picture Message
Smart menu

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
MSISDN dialling
DTMF dialling from address book⁸
Dynamic group number assignment
Background (hidden) groups
DMO individual call⁸
DMO group call
DMO emergency call
DMO intelligent emergency call
Independent volume control
Enhanced full duplex ear sealing
Ambience listening
Privacy mode
Whisper mode
Group focus

DATA SERVICES AND APPLICATIONS

Status messaging (in TMO & DMO)
SDS Messaging (in TMO & DMO)⁷
Concatenated SDS messaging⁷
Battery status advised immediately on start-up
User expandable up to 4GB via MicroSD card
Multi-slot packet data
Circuit mode data
TETRA pager & call out
Short Data Applications (SDAs)
Image & map storage on memory card
Lone Worker feature
Missed event application
Up to 30 quick status messages

LOCATION BASED SERVICES

GPS integrated option -192dBw (-162dBm) tracking sensitivity
Over-The-Air GPS reporting using the following protocols:
• ETSI location standard reporting (LIP)
• NMEA & Sepura compact messaging
GPS-based compass
Enhanced indoor start-up & acquire through
'predictive ephemeris'
RFID tag equipped

SECURITY SERVICES

Authentication
Class 1, 2, 3 & 3G TETRA security
Air interface encryption
TEA1/2/3/4 Supported²

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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.

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Smartcard E2E encryption support²
Embedded E2E encryption support²
In-country E2E encryption algorithm support²
Multiple E2E algorithm support²

DMO REPEATER SERVICES (LICENCE REQUIRED)

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

CONNECTIVITY

TETRA voice & data
PEI Data via RS232 and USB data cables
Accessory connections via rugged accessory connector (RAC)
High speed interface for feature-rich audio accessories
Audio & data connection via facility connector
MicroSD card slot (4GB max)
Passive 125KHz RFID tag

ACCESSORIES

Personal charger
Vehicle DC charger
1+1 desktop charger
6+6 desktop charger
12- and 24-way battery-only chargers
Two-way, battery-only charger for vehicles
Wide range of antennas
Stud & belt attachments
Rugged belt clip
Rugged & soft leather cases
Basic IP55 remote speaker microphone
Advanced IP55 remote speaker microphone (with & without RF antenna)
Hands-free kit
Personal ear pieces
Public order accessories
Semi-covert accessories
Feature-rich and basic car kit
Serial & USB data leads
Four- & eight-way programming pods

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 and practices.

To enable Man-Down a software licence is also required

4 – Operating at temperature extremes may limit some aspects of operational performance

5 – Connector Protector must be enabled in customisation. An antenna, a battery and either an accessory or the STP9100 series RAC cover must be fitted. Lightly rinse in fresh

water after salt exposure to prevent salt crystal build-up

7 – Through use of Sepura pseudo-keypad. Chinese text entry not supported

8 – Selectable from phonebook or incoming call list



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