STP**9000** SERIES HAND-PORTABLES



DIMENSIONS

Height: 133mm (excluding antenna and rotary) Width: 61mm (54mm) Depth – standard battery: 32mm Depth – high-capacity battery: 37.5mm

WEIGHT

With standard battery: 250g (excluding antenna) With high-capacity battery: 275g (excluding antenna)

TETRA FREQUENCY BANDS

344-400MHz - STP9035
380-430MHz - STP9038
407-473MHz - STP9040
806-870MHz - STP9080

POWER SUPPLY

7.4V (nominal) lithium polymer battery packs Intelligent reporting batteries 1160mAh standard battery¹ 1880mAh high-capacity battery¹

TETRA RF PERFORMANCE

RF power: MS power Class 3L (1.8W) MSPD power Class 3L (1.8W) DMO repeater power Class 3L (1.8W) RF power customisable for:

- TMO/DMO/DM-repeater
- Adaptive power control
- Receiver class A & B
- Receiver static sensitivity -112dBm (-115dBm typical)
- Receiver dynamic sensitivity -103dBm (-106dBm typical)

AUDIO PERFORMANCE

Speaker audio power: >1W Rugged accessory connector (RAC)²

ENVIRONMENTAL PERFORMANCE

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Operational temperature (conformance tested) -20°C to +60°C

Operational temperature (min./max.) -30°C to $+65^{\circ}C^{3}$

- Storage temperature -40°C to +85°C⁴
- Dust & water protection to IP65 & IP67
- IPx5 (weatherproof)IP6x (dustproof)
- IPx7 (waterproof submersible, 1m depth for 30mins)

Shock, drop & vibration: ETS 300 019 5M3 Salt fog: MIL810E 509.4(1); duration 24hr salt⁵ Salt water: submersion, rated at 1m depth for 30 mins⁵

RFID PERFORMANCE

Internal tag: HITAG S2048, short range, 125 KHz, ISO11784 & ISO11785 compliant Range: 1 cm from back of individual radio box pack User accessible storage: 2048 bits, passive

- technology pre-programmed (user editable):32-bit unique identifier
- Serial number
- Hardware code
- TEI

PRODUCT OPTIONS

GPS

Man-Down alarm⁷ DM-Repeater Type-1A Air Interface encryption End-to-end encryption End-to-end encryption smart card support Wide range of languages supported Micro SDHC card up to 32GB User-changeable coloured bezels for easy identification

DISPLAY & USER INTERFACE

Screen:

- 30 x 38mm active LCD area
- High-resolution display (176 x 220 pixels)
 Sunlight-visible Transflective TFT display, 262K
- colours
- Menu:
- Intuitively-enhanced user interface
 'Favourite feature' shortcut & event notification bar,
- with missed call indicator LED
- Choice of three user interface presentation styles (compatibility, grid & list modes)
- Customisable top-level screen contentCustomisable SmartMenus supporting 100s of
- intuitively arranged soft keysQuick change menu for rapid & intuitive selection
- of talkgroups, status & user profile • Custom zoom/normal, large & very large mode
- text
- 'Twist & zoom' portrait image viewer
- Night mode to reduce low-light glare in vehiclesInvert display for easy viewing whilst lapel- or
- belt-mounted
- Customisable lock screen image
- Customisable user profiles e.g. 'covert', 'quiet', 'in a meeting' & 'loud'
- Controls:
- Dual-language alpha-numeric keypad option
 Four-way navigation keys
- Three context keys for intuitive menu interaction
 Three configurable feature-activation side keys:
- blind-find & glove-friendly • 12 configurable keypad feature activation keys
- Manual & automatic keypad lock
- Hard-capped keys

Going further in critical communications

Large, easy reach, blind find, glove-friendly PTTBlind-find emergency key

• Single rotary

- Haptics:
- Vibrate on call/message
- Haptic technology for enhanced key tactility when used with gloves

TALKGROUP MANAGEMENT

- · 9900 talkgroups including TMO & DMO
- 50 DGNA
- 5000 folders
- Five multi-level structure
- Quick groups/quick folder
- Home group
- Group toggle
 Talkgroup stack toggle
- Talkgroup selection:
- Single or user-defined scan list (UDSL)
- 20 UDSL each with 10 talkgroups
- Folder selection:
- 4987 folder scan list of 22 scanned talkgroups
- each
- Each folder scan list with 75 talkgroups
- 10 editable folder scan lists
- Background talkgroups in folder scan list

NETWORK

- Multiple home networks
- Up to 30 configurable networks
- Simple & mutual authentication
- Aliasing with Radio User Assignment (RUA)
- · Radio user-initiated log-on/log-off process
- Dispatcher-initiated log-on/log-off process
- Preferred location area
- Fixed location area

PHONEBOOK

- 2000 contact names
- Up to six numbers per contact (to a max. of 6000
- stored numbers)
- 64 contact folders including favourite folder

VOICE SERVICES

Individual/group/broadcast call

Half-duplex audio toggle

Full-duplex auto-answer

Call priority

Group focus

Call history

Ambience listening

Multiple alert tones

DMO SERVICES

WAP support:

Privacy & whisper modes

DMO individual & group call

DM-repeater inter-working call

DM-gateway inter-working call

DATA SERVICES & APPLICATIONS

Single- & multi-slot packet data

Channel-only talkgroup

DM-Gateway talkgroup pair

Independent volume control

Half-duplex (individual & group)

Full-duplex calls (to MS & PABX/PSTN)

Speed, one-touch & direct dialling

Calling/talking party identification

DTMF/MSISDN/abbreviated dialling

Transmit inhibit with on/off status messaging

DMO emergency & intelligent emergency call

Route pre-emptive half-duplex call to internal loudspeaker

- WAP 2.0
- WAP browsing via TETRA
- WAP shortcuts embedded in SDS for instant data

access · WAP access OTA via TETRA or second data bearer

- WAP onboard: Micro SDHC-based WAP sites for instant access to
- intelligence, images, maps & text · Data maintained by Radio Manager2
- PEI access
- High-speed programming

Messaging:

- SDS messaging (in TMO & DMO)
- · Picture Messaging via SDS or packet data
- Concatenated SDS messaging
- Auto-capitalisation in SDS text entry
- Status messaging (in TMO & DMO)
- 350 predefined status messages (up to 140
- Unicode characters)
- Up to 30 quick status messages
- Callout & paging:

TETRA simple callout/full callout/paging alert AT commands:

· ETSI & enhanced commands

- via PEI serial port profile over Bluetooth & USB
- · Voice call control supported
- Over the air control & programming:
- Status-triggered functions
- Group management via Sepura Public Profile (SPP)
- Reprogramming over Wi-Fi with Radio Manager2
- Battery status at start-up

Missed event application

Major radio status change notification application User-expandable up to 32GB via Micro SDHC card

SAFETY FEATURES & APPLICATIONS

Emergency call:

- Pre-emptive priority
- · Hands-free live mic operation
- Emergency voice call & alerting to current or defined talkgroup
- Emergency status/SDS/location report to defined control user/group
- Full-duplex or half-duplex emergency calls
- Manual activation via red emergency key
- Automatic activation via Man-Down⁷ option
- Automatic TMO/DMO selection
- Emergency through DM-repeater/DM-gateway
- Loud, distinct audio & visual indication
- Silent alarm call
- Man-Down7:
- Immobility detection
- Unusual inclination detection
- Customisable alerting (see Emergency Call Capability)
- Lone-Worker feature
- Blind-find emergency button

Wake-on-Alarm allows user to switch on radio & signal an emergency in one action

LOCATION-BASED SERVICES

GPS integrated option -192dBw (-162dBm) tracking sensitivity

- Over-The-Air GPS reporting:
- ETSI location standard reporting (LIP)
- NMEA & Sepura compact messaging Integral antenna plus active external antenna input
- option for use in sky obscured vehicles
- GPS-based compass On-board mapping capable⁶

Enhanced start-up & acquire through 'predictive

ephemeris'

- RFID tag equipped
- Glonass and BeiDou2 support⁶

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SECURITY SERVICES

- TETRA:
- Authentication
- · Class 1, 2,3 & 3G TETRA security
- Air Interface encryption TEA1/2/3/49
- Smart card E2E encryption⁹
- Embedded E2E encryption⁹
- Enhanced security module (ESM)
- In-country E2E Encryption algorithm⁹
- Multiple E2E algorithm9
- Temporary disable (stun)
- Permanent disable (kill)
- 600KEK crypto groups

DM-REPEATER SERVICES (LICENCE REQUIRED)

- DMO voice repeated Status & SDS 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
- USB support for data Accessory connections via rugged accessory connector $(RAC)^2$ Audio & data connection via bottom connector (sDAC) MicroSDHC card slot (32GB max.) Passive 125KHz RFID tag RAC - rugged side connector²:
- Rapid tool-less fitting & removal
- Unique anti-overtighten design
- Salt-resistant seal
- sDAC bottom connector:
- Rapid tool-less quarter-turn twist-lock fitting &
- removal
- Connector Protector salt protection

PROGRAMMING CAPABILITY

High-speed programming Radio Manager2 compatible Micro SDHC contents manageable via Radio Manager2 On-screen programming progress bar

1 - New standard (300-01174) & high-capacity (300-01175) batteries, along with the high power Class 3 feature licence,

are required to operate the SC20 in high power RF Class 3

RF Class 3L

accessories

build-up

compatible

IP65

mode. Use of older STP batteries will limit SC20 operation to

2 - Compatible with Sepura STP9000 & STP8000 RAC-based

3 - Operating at temperature extremes may limit some

4 - As defined in ETSI EN300 019-2-1 & EN300 019-2-2

5 - Connector Protector must be enabled in customisation.

An antenna, a battery & a Sepura accessory or sRAC cover

must be fitted. Rinse in fresh water to prevent salt crystal

6 - Future: please contact Sepura Product Management to

7 - The Man-Down alarm should in no way be regarded as

a substitute for compliance with appropriate risk assessment

& other safety procedures & practices. To enable Man-Down a

11- Existing STP belt clips may adversely affect broadband

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8 - SDAs must be reformatted for use with an SC20

10- STP 1+1 chargers shipped since mid-2013 are

performance. SC20 belt clips are recommended

9 - Availability is subject to export licence

aspects of operational performance

discuss your requirements

software licence is required

IP67

ACCESSORIES

- Chargers:
- · Personal rapid charger
- · Vehicle rapid charger
- 1+1 charger
- 6+6 desktop charger
- 12 way battery only charger
- · 24 way battery only charger
- Two way in-vehicle charger Batteries:
- Standard capacity battery¹ High capacity battery¹

Stud & belt attachments¹¹

STP/SC Series Basic Car Kit

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.

Carrying accessories:

Car kits:

Basic car it

Serial + USB

Going further in critical communications

Complete car kit

Programming Leads:

Carry cases & holsters