Operational temperature (min./max.) -30°C to +65°C
Storage temperature -40°C to +85°C
Dust & water protection to IP65 & IP67
- IP5x (weatherproof)
- IP6x (dustproof)
- IP6x7 (waterproof – submersible, 1m depth for 30mins)
Shock, drop & vibration: ETS 300 019 SM3
Salt fog: MIL810E 509.4(J); duration 24hr salt
Salt water: submersion, rated at 1m depth for 30 mins

Operational temperature (conformance tested) -20°C to +65°C

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 alarm
- 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 content
- Customisable SmartMenus supporting 100s of intuitively arranged soft keys
- Quick 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 vehicles
- Invert 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
- Large, easy reach, blind find, glove-friendly PTT
- Blind-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 DGMA
- 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
Alasing 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 (individual & group)
Route pre-emptive half-duplex call to internal loudspeaker
Half-duplex audio toggle
Full-duplex calls (to MS & PABX/PSTN)
Full-duplex auto-answer
Independent volume control
Speed, one-touch & direct dialling
Call priority
Calling/talking party identification
DMF/MMSD/abbreviated dialling
Ambience listening
Privacy & whisper modes
Group focus
Transmit inhibit with on/off status messaging
Call history
Multiple alert tones

DMO SERVICES

DMO individual & group call
DMO emergency & intelligent emergency call
DM-repeater inter-working call
DM-gateway inter-working call
Channel-only talkgroup
DM-Gateway talkgroup pair

DATA SERVICES & APPLICATIONS

Single- & multi-slot packet data
WAP support
SECURITY SERVICES

TETRA:
- Authentication
- Class 1, 2, 3 & 3G TETRA security
- Air interface encryption TEA1/2/3/4
- Smart card E2E encryption
- Embedded E2E encryption
- Enhanced security module (ESM)
- In-country E2E Encryption algorithm
- Multiple E2E algorithm
- 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
- Bluetooth support for voice & data
- USB support for data
- Accessory connections via rugged accessory connector (RAC)
- Audio & data connection via bottom connector (sDAC)
- Micro SDHC card slot (32GB max.)
- Passive 125KHz RFID tag
- RAC – rugged side connector
- Rapid tool-less fitting & removal
- Unique anti-over-tighten 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

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 battery
- High capacity battery

Carrying accessories:
- Stud & belt attachments
- Carry cases & holsters

Car kits:
- Basic car it
- Complete car kit
- STP/SC Series Basic Car Kit

Programming Leads:
- Serial + USB

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 mode. Use of older STP batteries will limit SC20 operation to RF Class 3L.
2 – Compatible with Sepura STP9000 & STP8000 RAC-based accessories
3 – Operating at temperature extremes may limit some aspects of operational performance
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 build-up
6 – Future please contact Sepura Product Management to discuss your requirements
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 software licence is required
8 – SDSs must be reformatted for use with an SC20
9 – Availability is subject to export licence
10 – STP 1+1 chargers shipped since mid-2013 are compatible
11 – STP belt clips may adversely affect broadband performance. SC20 belt clips are recommended