380-430MHz – SC2120
- Receiver static sensitivity -116dBm
- Receiver dynamic sensitivity -107dBm

403-470MHz – SC2124
- Receiver static sensitivity -116dBm
- Receiver dynamic sensitivity -107dBm

806-870MHz – SC2128
- Receiver static sensitivity -114dBm
- Receiver dynamic sensitivity -105dBm

AUDIO PERFORMANCE
Speaker audio power: 1W
Rugged accessory connector (sRAC)
Water-porting technology continually clears water from mic/earpiece & speaker to allow use in constant rain

ENVIRONMENTAL PERFORMANCE
Operational temperature (conformance tested): -20°C to +60°C
Operational temperature (min./max.) -30°C to +65°C
Storage temperature -40°C to +85°C
Dust & water protection to IP65 and IP67:
- IP6x (dustproof)
- IPx7 (waterproof - submersible, 1m depth for 30 mins)
- IPx5 (waterproof - heavy rain/spray/jets)
- Fit for purpose; tested for full 8-hour shift in heavy rain
Shock, drop & vibration: ETS 300 019 5M3
806-870MHz – SC2128
- Receiver dynamic sensitivity -107dBm
- Receiver static sensitivity -116dBm
- Receiver dynamic sensitivity -105dBm

RFID PERFORMANCE
Internal tag: HITAG S2048, short range, 125 KHz, ISO11784 & ISO11785 compliant
User accessible storage: 2048 bits, passive technology pre-progammed (user editable):
- 32-bit unique identifier
- Serial number
- Hardware code
- TEI

PRODUCT OPTIONS
GPS & BeiDou2 support
Bluetooth
Wi-Fi
Man-Down alarm
DM-Repeat Type-1A
Air Interface encryption
End-to-end encryption
Enhanced security module (ESM)
End-to-end encryption smart card support
Wide range of languages supported
User-changeable coloured keymat bezel for easy identification

DISPLAY & USER INTERFACE
Screen:
- 37 x 49mm active LCD area
- High-resolution display QVGA (320 x 240 pixels)
- Sunlight-visible Transreflective 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
- Night mode to reduce low-light glare in vehicles

- Invert display for easy viewing whilst lapel- or belt-mounted
- Customisable privacy 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

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
  - 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 (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
- DTMF/MSSDN abbreviated dialling
- Ambience listening
- Privacy & whisper modes
- Group focus
- Transmit inhibit with on/off status messaging
- Call history
- Multiple alert tones

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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
SECOND DATA-BEAVER CAPABILITY
Wi-Fi
- IEEE standard: 802.11b, 802.11g & 802.11n
- Frequencies: 2.4GHz band
Authentication & encryption: WPA2-PSK, WPA2-
Enterprise authentication (radius) with AES encryption
DATA SERVICES & APPLICATIONS
Dual-data-beaver support: TETRA & broadband Wi-Fi
Single- & multi-slot packet data
WAP support:
- WAP 2.0
- WAP browsing via TETRA
- WAP shortcuts embedded in SDS for faster data access
- WAP access OTA via TETRA or second data-beaver
Bluetooth module:
- Bluetooth v2.1+EDR
- Bluetooth v4.x
Bluetooth audio:
- Headset profile (HSP)
- PTT extension to HSP support
Bluetooth data services:
- Serial Port Profile (SPP) for data connectivity with body-worn printers/scanners
- Dial-up networking (EDR)
- Discovery mode
- Generic attributes profile (GATT)
Hardware-ready for the following Bluetooth capabilities:
- Object push profile
- Heart device (heart rate & temperature)
- Battery service profile
- Devices identity profile
- Hands-free
- MAP
- HID
- HOG
Bluetooth trusted device, auto re-connect
PEI access
USB 2.0 support:
- Host support for interaction with body-worn accessories such as printers & scanners
- Slave support allows use of SC21 as a modem
- PEI access
High-speed programming
Enhanced Short Data Applications (sSDAs):
- Supports all existing SC20 & STP SDA capabilities
- Supports data accessories such as body-worn printers & scanners via Bluetooth or USB
- Supports online database access & interaction with returned data
Messaging:
- SMS 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 status messages (up to 140 Unicode characters)
- Up to 30 quick status messages
Callout & paging:
- TETRA simple callout
- Full callout
- Paging alert
AT commands:
- ETI & enhanced commands
- Via PEI serial port profile via Bluetooth & USB
Voice call control supported
Over the air control & programming:
- Status-triggered functions
- Group management via Sepura Public Profile (SPP)
Battery status at start-up
Missed event application
Major radio status change notification application
SAFETY FEATURES & APPLICATIONS
Emergency call
- Pre-emptivity 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-Down* option
- Automatic TMO/DMO selection
- Emergency through DM-repeater/DM-gateway
- Loud, distinct audio & visual indication
- Silent alarm call
- Man-Down
- Immobility detection
- Unusual inclination detection
- Customisable alerting (see Emergency call capability)
- Lone-Walker feature
- Blind-find emergency button
- Wake-on-Alarm allows user to switch on radio & signal on an emergency in one action
LOCATION-BASED SERVICES
GPS integrated option -194dBw (-164dBm) tracking sensitivity
Over-The-Air GPS reporting
- ETSI location standard reporting (LIP)
- NMEA & Sepura compact messaging
- Max. simultaneous satellite track = 24
- Integral antenna plus active external antenna input
- Option for use in sky-obscured vehicles
- Bluetooth location-system compliant
- Enhanced start-up & acquire through ‘predictive ephemeris’
- RFID tag equipped
- Bedou 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 algorithms
- Temporary disable (stun)
- Permanent disable (kill)
- 60KEK crypto groups
- Wi-Fi
- WPA2-PSK, WPA2-Enterprise authentication (radius) with AES encryption
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
CONNECTIONIVITY
TETRA voice & data
Bluetooth support for voice & data
USB support for data
PEI data via USB or Bluetooth
Wi-Fi support
Access connections via rugged accessory connector (sDAC)
Audio & data connection via bottom connector (sDAC)
Passive 125KHz RFID tag
sRAC – rugged side connector
- Rapid tool-less fitting & removal
- Unique anti-overnight 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 via USB slave cable
Six-way USB gang programming supported in 6+6 programmer/charger
Background ‘over the air’ programming via Wi-Fi
Radio Manager2 compatible
On-screen programming progress bar
COMPATIBLE SC20/STP ACCESSORIES
Chargers
- SC20 personal rapid charger
- SC20 vehicle rapid charger
- 1+1 desktop charger
- 6+6 desktop charger/programmer
- 12- & 24-way battery-only chargers
- Two-way, battery-only DC charger for vehicles
- STP RAC-mount accessibility
- All overt range
- All covert range
- All semi-covert range
- All public order range
Batteries:
- Standard capacity battery
- High-capacity battery
- Data leads:
- USB host adapter for wired body-worn accessories
- USB slave data lead for programming & control of SC21/SC20 from a third-party device
Car Kits:
- SC2/STP basic car kit (metal) plus insert
SC21-ONLY ACCESSORIES
Carrying accessories:
- Stud, belt & shirt pocket attachments
- Nylon holster
- Lightweight leather case
Car kits:
- SC21 modular car kit
- Antennas:
- Overt range
- Covert range

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*While every effort is made to ensure the reliability of the Man Down Alarm (MDA), the nature of the technology and the circumstances of use are such that Sepura cannot warrant that it will operate effectively in all circumstances and users should not entrust their safety to the MDA. The MDA should not be used as a substitute for compliance with appropriate risk assessment and other safety procedures. As such, and specifically in respect of the MDA, all warranties, conditions or other terms implied by statute or common law are excluded. For the avoidance of doubt, no term is to be implied as to the fitness for purpose or satisfactory quality of the MDA.

1 – New standard & high-capacity batteries, along with the high power Class 3 feature licence, are required to operate the SC21 in high power RF Class 3 mode. Use of older STP6 standard & high-capacity batteries will limit SC21 operation to RF Class 3L.
2 – Compatible with Sepura STP9000 & STP8000 RAC-based accessories, as well as SC20 IRAC-based accessories
3 – Operating at temperature extremes may limit some aspects of operational performance
4 – As defined in ETSI EN300 919-2-1 & EN300 919-2-2
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 – SC20/STP 1+1 chargers (300-00190) are compatible with SC21, SC20 and STP series for charging and SC21/SC20 for charging and programming.
7 – Availability is subject to export licence
8 – SC20/STP 6+6 chargers (300-00180) are compatible with SC21, SC20 and STP series. SC20/STP 6+6 chargers (programmers (300-00846) are compatible with SC21, SC20 and STP series for charging and SC21/SC20 for charging and programming.

Going further in critical communications