# STP**9200**
## 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

344-400MHz – STP9235
380-430MHz – STP9238
407-473MHz – STP9240
806-870 MHz – STP9280

## POWER SUPPLY

7.4V (nominal) lithium polymer battery packs
Intelligent reporting batteries
1160mAh standard battery
1400mAh mid-capacity battery
1880mAh high capacity battery

### RF PERFORMANCE

RF Power: MS power class 3L (1.8 Watts)
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

Audio power - >1 Watt
Operational temperature (conformance tested) -20°C to +60°C
Operational temperature (min./max.) -30°C to +65°C[4]
Storage temperature -40°C to +85°C[1]
Dust and water protection to both IP67 & IP65 (waterproof, submersible, sprayproof & dustproof), plus tested for complete eight hour shifts "in the pouring rain"
Shock, drop & vibration ETS 300 019
Salt fog: MIL810E 509.4(l); duration 24hr salt[5]
Salt water: submersion, rated at 1m depth for 30 minutes[5]

## PRODUCT OPTIONS

GPS
Man-Down alarm[3]
DMO repeater Type 1A
Air Interface encryption options
End-to-end encryption options
Wide range of languages supported
Coloured bezels
Smartcard support

## RFID performance

Internal tag – HITAG S2048, short range, 125KHz, ISO11784 & ISO11785 compliant
Range: 1 cm 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

Active LCD area 37mm x 19 mm, with 128 x 64 resolution
High visibility monochrome display
Call history
Seven configurable feature activation keys
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, list and grid)

Wake-on-Alarm function
Sepura Picture Message
Smart menu

## VOICE SERVICES

Full duplex calls (to MS & PABX/PSTN)[6]
Half-duplex calls (individual & group)[6]
Priority call
Emergency call (pre-emptive priority)
Intelligent alarm reporting
Talking party identity
Calling line identity presentation
DTMF dialling from address book[7]
MSISDN dialling
Abbreviated dialling
Dynamic group number assignment
Background (hidden) groups
Ambience listening
Privacy mode
Whisper mode
Group focus
DMO individual call[7]
DMO group call
DMO emergency call
DMO intelligent emergency call
Independent volume control
Gateway pairing

## DATA SERVICES AND APPLICATIONS

Status messaging (in TMO & DMO)
SDS messaging (in TMO & DMO)[7]
Concatenated SDS messaging[7]
Multi-slot packet data
TETRA paging & call out
Battery status advised immediately on start-up
Short Data Applications (SDAs)
Lone-Worker feature
Missed event notification
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 and acquire through 'predictive ephemeris'
RFID tag equipped

## SECURITY SERVICES

Authentication
Class 1, 2, 3 & 3G security
Air interface encryption
TEA1/2/3/4 Supported[2]
Smartcard E2E encryption support[2]
Embedded E2E encryption support[2]

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## Going further in critical communications

## 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

## 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
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 & basic car kits
Serial & USB data leads
Four- & eight-way programming pods

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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 extreme temperatures 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 STP9000 series RAC cover must be fitted. Lightly rinse in fresh water after salt exposure to prevent salt crystal build-up
6 – Through use of Sepura pseudo-keypad. Chinese text entry not supported
7 – Selectable from phonebook or incoming call list

**IP67** submersible

**RFID**

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