S STONEX

S4

S4 SERIES: RUGGED HANDHELDS

RUGGED, RELIABLE, HIGHLY PRODUCTIVE

STONEX® S4 is the new family of Handheld by Stonex. Integrated devices, suitable for all the jobs where a rugged and high performances mobile PC is required.
The design process of S4 is permeated with a clear objective concept: to provide a high-accuracy handheld GPS system for faster data getting, longer time lasting and more applications than any other similar device in the daily work.

WORK ALWAYS, IN EVERY WEATHER CONDITION

The S4 rugged and reliable design, combined with the IP65 Certification rating can withstand any harsh environment. STONEX S4 can be used in any situations wherever the field staff go. Complete product certifications and the advanced manufacturing process, ensure that the device is high-efficient steady and durable, it can bring an unprecedented experience even for GIS users.

ADVANCED FEATURES IN ONE HAND

The embedded sub-meter high-performance GPS receiver, the internal 5 megapixel autofocus HD camera, global communication facilities - GPRS modem, Wi-Fi and Bluetooth, are only a part of the Stonex S4 features.
The high-brightness TFT VGA 640x480 display, readable even in direct sunlight conditions, and the removable high-capacity lithium battery with power management chip, give Stonex S4 an excellent working capability for one working day. The internal removable battery lasts many hours of endurance GPS after a single charge.

ADVANCED GPS FEATURES

S4 is compatible with the RTCM 2.X differential correction signals from CORS and GPS networks: in addition to the worldwide correction signals WAAS, EGNOS, GAGAN, MSAS, the positioning accuracy can be increased up to 1 m.

Wi-Fi, Bluetooth, GPRS modem,
5 MP camera,
voice call and MMS,
Mini waterproof USB connector,
RS232 serial port

IP65 rating against dust and water sprayed
from all directions

KEY FEATURES

EMBEDDED HIGH PERFORMANCES GPS RECEIVER
Real-time positioning accuracy of 2.5 m, provide a suite of modestly priced integrative solution for customers

RTCM DIFFERENTIAL AND NMEA SUPPORT
Improve the positioning accuracy connecting to GPS network

5 MEGAPIXEL EMBEDDED CAMERA
For high quality images and videos

IP65 CERTIFIED
Works in any harsh condition

FULL COMMUNICATIONS SET
USB, RS232 serial port, Wireless LAN, Bluetooth 2.1 and TF card socket

EXCELLENT SUNLIGHT READABLE DISPLAY
3.7" TFT VGA industrial high contrast display, readable under full sunlight from any viewing angle

STONEX

HARDWARE CONFIGURATION (S4 C/H/M)

Hardware	
Operation System	Windows Mobile 6.5
Processor	Marvell PXA-310 806 MHz Xscale CPU
RAM	256MB
Internal Storage	4GB+256MB (extensible to 32GB)
External Storage	TF extensible to 32GB
Sensor	Electronic compass （optional)
Battery (Rechargeable Lithium)	
Battery Capacity	7.4V, 1500mAh,11.1Wh,Li-Ion
Working Hours	Endurance of 12 hours (two batteries)
Size and Weight	
Size	177 × 91 × 33 mm (L*W*D)
Weight	455g (battery included)-S4C, 460g-S4H, 470g-S4M
Environment	
Relative Humidity	5% ~ 95% non-condensing
Operating Temperature	-20℃ to +60℃
Storage Temperature	-30℃ to +70℃
Waterproof/Dustproof	IP65
Display	
Model	TFT colors, LED backlight
Resolution	480 × 640 VGA
Size	3.7 inch
Mechanical Shock	
Drop Test	1.5m (5t) onto concrete

Buttons and Controls	
Power key, Win key, ESC key, Numeric keys , Alphabetic keys ,Symbol key, Left &Right soft key, Screen brightness control keys , Send &End key, Shift key(Shift F1 and F2, direction, tab and *#), Camera key(only in S4H and S4M)	
Interface and Input	
Multi-media	Integrated speaker, microphone and telephone receiver, support record and replay
Soft key	Soft keyboard for numbers and symbols input
SIM card	SIM card socket
External power supply	External power connector
TF card	Micro SD card socket
Data Transfer interface	USB connector, serial port, RS232 COM port
Protocol(not in S4C)	
RTCM	Support RTCM2.1, 2.3, differential
CORS	Fully compatible with CORS and regional reference station VRS/NRS
NEMA	Data I/O, NMEA(GGA、 GLL、 RMC、 GSA、 GSV、 VTG)
Standard Accessories	
Carton package, Adapter, USB cable, Battery, Handstrip , Stylus & string of pen , CD and Manual, Screen protector, Charger set	
Data Communication	
USB	Mini waterproof USB Connector
Wireless	802.11b/g Wireless LAN
Bluetooth	Bluetooth version 2.1+EDR

ADDITIONAL FEATURES (S4 H/M)

Camera	
Static Mode	AutoFocus 5MP
Image Format	JPG (2048×1536)
Video Mode	Up to VGA resolution
Data Communication	
Communication module	Internal quad-band global communication module
Multi-media	Voice call and multimedia message
Chipset	U-blox6t
Receiver	Single frequency GPS receiver
Channel	50 channels
System	GPS, SBAS
Update Rate	1Hz
Time to first fix	32s
GPS	L1 frequency, C/A code
SBAS	WASS/EGNOS/MSAS/GAGAN
SNR	≥45dB (more than 4 satellites)
RTCM/CMR Support	RTCM2.1, 2.3, differential
NEMA-0183 Support	Available
CORS (VRS/NRS) Support	Available
Positioning Accuracy	1 - 3m
RFID	13.56MHz (S4 M)

Specifications subject to change without notice

IP65 CE RoHS 2002/95/EC

Wi Fi Bluetooth

STONEX AUTHORIZED DEALER