SG7100 Android Mobile Computer

SG7100 serial products extend Handheld-Wireless product serials into Android OS 7.0. Inside the compact handheld device, sealing level of IP65 water/dust proof, 1.5m/4.5ft drop survival, ergonomic design, over-molding structure, quick-charging technology, and 4.7 inch tough Gorilla Glass 3 screen are all equipped to ensure performance. Latest 1.3GHz quad-core processor 2GB RAM/16GB ROM and up to 32GB expansion are all designed to boost up experience level.

FEATURES

Extremely Stable Performance

Android 7.0 OS with memory of 2GB RAM/16GB ROM can provide the highly standard experience

High Speed Data Communication

WIFI network can ensure the real-time data communication in different using environment;

Rugged Ergonomic and Over-molding Design

Over-molding and ergonomic hardware design can satisfy most of the tough environment from different fields;

Extremely Stable Hardware Display

4.7 inch Gorilla Glass 3 9H screen can ensure the performance under different tough environment;

Highly Customized Structure

'All-in-One' hardware design conception can expand the hardware modules integration based on different project requirements, especially like HF+LF;

Quick-Charging

Quick-charging technology can provide the most efficient experience;

Perfect Service

Professional and skillful service involving the whole life cycle can guarantee the stability.

SPECIFICATIONS	
PHYSICAL CHARACTERISTICS	
Dimension	162mm(H)x78mm(W)x22mm(D)±2 mm
Weight	Net Weight :350g (including battery&wrist strap)
Display	Gorilla Glass 3 9H 4.7 in. TFT-LCD(720x1280)touch screen with backlight

Backlight	LED backlight
Keypads	3 TP keys, 5 function keys, 4 side buttons
Expansions	1 TF
Battery	Rechargeable li-ion polymer, 3.8V, 4750mAh

PERFORMANCE CHARACTERSTICS

CPU	Quad A53 1.3GHz quad-core
Operating System	Android 7.0
Storage	2GB RAM, 16GB ROM, MicroSD(max 32GB expansion)

USER ENVIRONMENT

Operating Temp.	-20℃ to 50℃
Storage Temp.	-20℃ to 70℃
Humidity	5%RH to 95%RH(non-condensing)
Drop Specifications	5ft./1.5 m drop to concrete across the operating temperature range
Sealing	IP65, IEC compliance
ESD	±15kv air discharge, ±8kv direct discharge

DEVELOPMENT ENVIRONMENT

SDK	Handheld-Wireless Software Development Kit
Language	Java
Environment	Android Studio or Eclipse

DATA COMMUNICATION

WLAN	2.4GHz/IEEE 802.11 b/g/n
Bluetooth	3.0+EDR
GPS	GPS(embedded A-GPS), accuracy of 5 m

DATA CAPTUER

BARCODE READER(OPTIONAL)

1D barcode	1D laser engine	Honeywell N4313
	Symbologies	All major 1D barcodes
2D barcode	2D CMOS Imager	Newland EM3296 or EM3396
	Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode, Postal Codes, US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal. etc.

COLOR CAMERA

Resolution	8.0 megapixel
Lens	Auto-focus with LED flash

PSAM SECURITY(OPTIONAL)

Protocol	ISO 7816

Baudrate	9600, 19200, 38400,43000, 56000, 57600, 115200
Slot	2 slots(maximum)
ACCESSORIES	
Standard	1xPower Supply; 1xLithium Polymer Battery; 1xDC charging cable; 1xUSB data cable
Optional	Cradle

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device,pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there isno guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turningthe equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

--Reorient or relocate the receiving antenna. --Increase the separation between the equipment and receiver.

--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

--Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following twoconditions:(1) This device may not cause harmful interference, and (2) this device must acceptany interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.