S3 PLUS Android Mobile Computer

S3 PLUS serial products extend Handheld-Wireless product serials into Android OS 5.1.1 with 4G high speed network communication. 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 5.0 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 5.1.1 OS with memory of 2GB RAM/16GB ROM can provide the highly standard experience

High Speed Data Communication

Double insurance of 4G high Speed network and dual-frequency 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

5.0 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 UHF+HF, UHF+LF; 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	170mm(H)x85mm(W)x23mm(D)±2 mm
Weight	Net Weight :370g (including battery&wrist strap)
Display	Gorilla Glass 3 9H 5.0 in. TFT-LCD(720x1280)touch screen with backlight
Backlight	LED backlight
Keypads	3 TP keys, 6 function keys, 4 side buttons
Expansions	2 PSAM, 1 SIM, 1 TF
Battery	Rechargeable li-ion polymer, 3.7V, 4500mAh
PERFORMANCE CHARACTERSTICS	
CPU	Quad A53 1.3GHz quad-core
Operating System	Android 5.1.1
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	HHW Software Development Kit
Language	Java
Environment	Android Studio or Eclipse
DATA COMMUNICATION	
WWAN	TDD-LTE Band 38, 39, 40, FDD-LTE Band 1, 2, 3, 4, 7; WCDMA(850/1900/2100MHz); GSM/GPRS/Edge 850/900/1800/1900MHz);
WLAN	2.4GHz/5.8GHz Dual Frequency, IEEE 802.11 a/b/g/n/ac
WPAN	Bluetooth Class v2.1+EDR, Bluetooth v3.0+HS, Bluetooth v4.0
GPS	GPS(embedded A-GPS), accuracy of 5 m
DATA CAPTUER	
BARCODE READER(OPTIONAL)	

1D barcode	1D laser engine	Honeywell N431x
	Symbologies	All major 1D barcodes
2D barcode	2D CMOS Imager	Honeywell N6603

	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	
RFID READER(OPTIONAL)		
RFID LF	Frequency	125KHz/134.2KHz(FDX-B/HDX)
	Protocol	ISO 11784&11785
	R/W Range	2cm to 10 cm
RFID HF	Frequency	13.56MHz
	Protocol	ISO 14443A&15693
	R/W Range	2cm to 8cm
RFID UHF	Frequency	865~868MHz or 920~925MHz
	Protocol	EPC C1 GEN2/ISO 18000-6C
	Antenna Gain	Circular antenna(2dBi)
	R/W Range	1 m to 1.5 m(tags and environment dependant)
Active 2.45GHz	Read range more than 200 m	
433MHz	Read range more than 200 m	
ZigBee READER(OPTIONAL)		
Protocol	IEEE 802.15.4	
Reading Range	100 m to 200 m	
FINGERPRINT READER(OPTIONAL)		
Sensor	TCS1ST	
Sensor type	Capacitive, area sensor	
Resolution	508 DPI	
Performance	FRR<0.008%, FAR<0.005%	
Capacity	1000	
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	Magnetic charging cable; Carrying case	