

A7320A Android Mobile Computer

A7320A 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 1.5GHz quad-core processor 2GB RAM/16GB ROM and up to 32GB expansion are all designed to boost up experience level.



FEATURES

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;

Highly Integrated and Preinstalled Application

The highly integrated and preinstalled ScanServer can satisfy most of the solutions obtained from Google Play by the working principle of 'Plug and Play';

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) \pm 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 CHARACTERISTICS

CPU	Quad A53 1.5GHz quad-core
Operating System	Android 7
Storage	2GB RAM, 16GB ROM, MicroSD(max 32GB expansion)

USER ENVIRONMENT

Operating Temp.	-20°C to 50°C
Storage Temp.	-20°C to 70°C
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	\pm 15kv air discharge, \pm 8kv direct discharge, \pm 8kv indirect 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, 17, 20; 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 CAPTURE		
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	TCS1SM	

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