



CRUISE 1 SERIES HAND-HELD TERMINAL PRODUCT SPECIFICATION V1.2



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1. CRUISE 1 PERFORMANCE CHARACTERISTICS

CPU	Cortex-A53 eight core (1.5 GHz four core + 1.2 GHz four core)
Operating System	Android 5.1
RAM	2GB
ROM	16GB
SIM card interface	SIM card*2 (Dual sim dual standby)
Expansion Slot	Micro SD Card, up to 32GB
Interface/Communication	24 PIN Waterproof TYPE C interface, USB communication. Support OTG Back extension interface, support USB 2.0 HighSpeed, when TYPE C interface is not connected with cable or cradle, USB OTG is connected to the back 8 contacts by default, when connected with cable or cradle, OTG is switched to TYPE C from back
Keypad	Volume+, - key, power key, 2 side scan keys, function keys
Display	5.2 inches IPS display, capacitive touch, with gloves or dry / wet hands
	1920(H)×1080(W) (1080P)
Power	Removable 3.8 V 4400mAh lithium-ion rechargeable battery
	Bottom TYPE C USB interface / 2.5A charging current, intelligent identification PC and charger; Back POGO PIN interface, support 2.5A fast charge and USB OTG and VBAT power supply, Scan trigger key
Notification	Sound, Vibration, LED lights : The scanning indicator light (red), breathing light (blue, support calls when in sleep state, SMS), charging / charging complete indicator (red and green color)
Audio	Built in single speaker, built in dual microphone (With noise reduction function), 3.5mm stereo headset interface
Sensor	Gsensor, gyroscope, compass, barometer, Light distance sensor
Dimension	152(H)×75.9(W)×12.8(T)
Weight (including standard battery)	227g (Including battery depends on different configurations)
Operating Temp	-20°C to +50°C
Storage Temp	-40°C to +60°C (Battery included)
	-40°C to +70°C (Battery excluded)



Humidity	5% to 95% RH non-condensing
Sealing	IP67
Drop Specification	Multiple 5 ft . / 1.5m drops to concrete across the operating temperature range
Tumble Specification	1, 000 1.64 ft . / 0.5 m tumbles (2, 000 drops)
ESD	±15kV Air discharge, ±8kV direct discharge

2. CRUISE 1 DATA CAPTURE OPTIONS

Option 1	2D Advanced Imager Scan Engine N6603
Sensor Resolution	844(H)×640(V)
Rotate	360°
Pitch Angle	±45°
Skew Tolerance	±65°
Scan Depth	7cm (5mil), 36cm (20mil)
Image frame	60fps
Code support	Aztec Code, Codabar, Codablock F, Code 11, Code 128, Code 2 of 5, Code 39, Code 93, Data Matrix, EAN/JAN-13, EAN/JAN 8, EAN-UCC Composite Codes, EAN-UCC Emulation, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MaxiCode, MicroPDF417, MSI, PDF417, Postal Codes (Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet), Plessey Code, PosiCode, QR Code, RSS Expanded, RSS Limited, RSS-14, TCIF Linked Code 39, Telepen, Trioptic Code, UPC-A, UPC-E Etc.
Light source system	White light, laser aiming
Barcode reflection	Minimum 20% reflectivity
Option 2	2D Advanced Imager Scan Engine
Sensor Resolution	1600 X 1200
Rotate	360°
Pitch Angle	±60°
Skew Tolerance	±55°
Scan Depth	5mil Code39 (9 character) 62-138mm ; 20mil Code128 (12 character) 100-550mm



Scan Frequency	15fps
Code support	1D : UPC/EAN, UPC/EAN with supplementals, Code128, GS1-128, Code 39, Trioptic, Code 32, Code 93, Code11, Matrix 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Industrial2 of 5, Codabar, MSI , Code11 etc. 2D : PDF417, MicroPDF417, Composite Code, Data Matrix, Maxicode, QR Code, MicroQR, Aztec
Light source system	White light, red laser aiming
Barcode reflection	Minimum 40% reflectivity
Option 3	Image Acquisition (Front camera)
Camera features	Focus
Pixel	5.0 mega pixel
Option 4	Image Acquisition (Rear camera)
Maximum Resolution	4208 x 3120 (photograph); 1080p 30fps (camera)
Camera features	phase focusing
Flash light	Support
Pixel	13.0 mega-pixel
Option 5	RFID Read/written (HF)
Standards Support	Support ISO15693, ISO14443A / B (without encryption protocol), ISO14443A tag with encryption protocol (Mifare one S50, S70 and compatible with cards). Support for NFC protocol
Operating Frequency	HF frequency band 13.56 MHz
Reading Distance	0-6cm (ISO15693), 0-4cm (ISO14443A / B) Reading distance is related with tags
Option 6	Fingerprint identification
Capture Function	Capacitive push
Resolution	508ppi
Finish type	Tempered glass cover
Option 7	Security module
Type	Micro PSAM card (if using PSAM, the device does not support this function : dual card dual standby)



Option 8	GPS location information collection
Positioning system	GPS, Compass, GLONASS
Frequency	GPS (L1, 1.575GHz C / A code), Compass (B1, 1.561GHz), GLONASS (L1, 1.602GHz)
Maximum channels	31 channel
Sensitivity	-130dB (SNR value is 40dBHz)
Cold start time	45 seconds Cold start sensitivity (dBm) : -145
Accuracy	5-10meter (OPEN SKY)

3. CRUISE 1 WIRELESS DATA COMMUNICATIONS

Option 1	WLAN WIFI
Protocol	IEEE 802.11a/b/g/n/ac (2.4G / 5G dual-band WIFI)
Frequency	Depends on the country (region), 2.4GHz : 2.412GHz-2.472 GHz ; 5GHz : 5.170GHz-5.825GHz
Working Channel	CH1~CH13, CH34-CH140, CH149~CH165
Security	OPEN, WEP, WPA2-PSK (TKIP+AES), TLS, TTLS (MS-CHAP), TTLS (MS-CHAP v2), TTLS (CHAP), TTLSMD5, TTLS-PAP, PEAP-TLS, PEAP (MS-CHAP v2), AES Etc.
Data Rate	802.11a : download≥25M upload≥25M ; Peak value 54M 802.11b : download≥5M upload≥5M ; Peak value 11M 802.11g : download≥25M upload≥25M ; Peak value 54M 802.11n : download≥75M upload≥75M ; 11n @40MHz ; Peak value 150M 802.11ac : download≥215M upload≥215M ; 11ac @80MHz ; Peak value 433M
Option 2	WWAN 4G All Network (7 mode 18 frequency)
Frequency	GSM : Quad Band (850/900/1800/1900Mhz) TD-SCDMA : Band34, Band39 WCDMA : Band1, Band2, Band5, Band8 CDMA 1x / EVDO : BC0 TDD-LTE : Band38, Band39, Band40, Band41 FDD-LTE : Band1, Band3, Band7
Communication Rate	GPRS : DL / UL171.2kbps ; EDGE : DL / UL384 kbps TD : DL 4.2 Mbps / UL 2.2 Mbps DC-HSPA+ : DL 42Mbps / UL 5.76 Mbps CDMA1x : DL 153.6kbps / UL 153.6kbps ; EVDO : DL 3.1 Mbps / UL 1.8 Mbps TDD-LTE : DL 117 Mbps / UL 30 Mbps (CAT4) FDD-LTE : DL 150 Mbps / UL 50 Mbps (CAT4)



Option 3	WPAN Bluetooth
Standard	Bluetooth 4.0 (Support BLE)
Power	Class 2
Distance	>20m (industrial-grade Bluetooth adapter)

4. CRUISE 1 THE THIRD PARTY APPLICATION DEVELOPMENT SUPPORT

System Software	Android 5.1 or above (All open source) Google play (Function development)
Systems Programming Environment	Android IDE (Eclipse)

5. CRUISE 1 PERIPHERALS AND ACCESSORIES

Standard accessories	The power adapter(5V/2.5A, CCC, Europe/En standard)×1, TYPE C data communication cable(10 thousand plug in/out, USB2.0, 1.2mter, Charging current 2.5A)×1, Hand strap×1
Optional accessories	Single-slot Ethernet cradle, Single-slot Charging cradle, 5-slot Charging cradle, Tempered glass, Silicone protective casing

6. CRUISE 1 CERTIFICATIONS

FCC, ROHS, CE, IP67, UN38.3
