



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



Jiangsu SEUIC Technology Co., Ltd.



## 1. CRUISE 1 PERFORMANCE CHARACTERISTICS

<b>CPU</b>	Cortex-A53 eight core (1.5 GHz four core + 1.2 GHz four core)
<b>Operating System</b>	Android 5.1
<b>RAM</b>	2GB
<b>ROM</b>	16GB
<b>SIM card interface</b>	SIM card*2 (Dual sim dual standby)
<b>Expansion Slot</b>	Micro SD Card, up to 32GB
<b>Interface/Communication</b>	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
<b>Keypad</b>	Volume+, - key, power key, 2 side scan keys, function keys
<b>Display</b>	5.2 inches IPS display, capacitive touch, with gloves or dry / wet hands
	1920(H)×1080(W) (1080P)
<b>Power</b>	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
<b>Notification</b>	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)
<b>Audio</b>	Built in single speaker, built in dual microphone (With noise reduction function), 3.5mm stereo headset interface
<b>Sensor</b>	Gsensor, gyroscope, compass, barometer, Light distance sensor
<b>Dimension</b>	152(H)×75.9(W)×12.8(T)
<b>Weight (including standard battery)</b>	227g (Including battery depends on different configurations)
<b>Operating Temp</b>	-20°C to +50°C
<b>Storage Temp</b>	-40°C to +60°C (Battery included)
	-40°C to +70°C (Battery excluded)



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

## 2. CRUISE 1 DATA CAPTURE OPTIONS

Option 1	2D Advanced Imager Scan Engine N6603
<b>Sensor Resolution</b>	844(H)×640(V)
<b>Rotate</b>	360°
<b>Pitch Angle</b>	±45°
<b>Skew Tolerance</b>	±65°
<b>Scan Depth</b>	7cm (5mil), 36cm (20mil)
<b>Image frame</b>	60fps
<b>Code support</b>	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.
<b>Light source system</b>	White light, laser aiming
<b>Barcode reflection</b>	Minimum 20% reflectivity
Option 2	2D Advanced Imager Scan Engine
<b>Sensor Resolution</b>	1600 X 1200
<b>Rotate</b>	360°
<b>Pitch Angle</b>	±60°
<b>Skew Tolerance</b>	±55°
<b>Scan Depth</b>	5mil Code39 (9 character) 62-138mm ; 20mil Code128 (12 character) 100-550mm



<b>Scan Frequency</b>	15fps
<b>Code support</b>	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
<b>Light source system</b>	White light, red laser aiming
<b>Barcode reflection</b>	Minimum 40% reflectivity
<b>Option 3</b>	<b>Image Acquisition (Front camera)</b>
<b>Camera features</b>	Focus
<b>Pixel</b>	5.0 mega pixel
<b>Option 4</b>	<b>Image Acquisition (Rear camera)</b>
<b>Maximum Resolution</b>	4208 x 3120 (photograph); 1080p 30fps (camera)
<b>Camera features</b>	phase focusing
<b>Flash light</b>	Support
<b>Pixel</b>	13.0 mega-pixel
<b>Option 5</b>	<b>RFID Read/written (HF)</b>
<b>Standards Support</b>	Support ISO15693, ISO14443A / B (without encryption protocol), ISO14443A tag with encryption protocol (Mifare one S50, S70 and compatible with cards). Support for NFC protocol
<b>Operating Frequency</b>	HF frequency band 13.56 MHz
<b>Reading Distance</b>	0-6cm (ISO15693), 0-4cm (ISO14443A / B) Reading distance is related with tags
<b>Option 6</b>	<b>Fingerprint identification</b>
<b>Capture Function</b>	Capacitive push
<b>Resolution</b>	508ppi
<b>Finish type</b>	Tempered glass cover
<b>Option 7</b>	<b>Security module</b>
<b>Type</b>	Micro PSAM card (if using PSAM, the device does not support this function : dual card dual standby)



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

### 3. CRUISE 1 WIRELESS DATA COMMUNICATIONS

Option 1	WLAN WIFI
<b>Protocol</b>	IEEE 802.11a/b/g/n/ac (2.4G / 5G dual-band WIFI)
<b>Frequency</b>	Depends on the country (region), 2.4GHz : 2.412GHz-2.472 GHz ; 5GHz : 5.170GHz-5.825GHz
<b>Working Channel</b>	CH1~CH13, CH34-CH140, CH149~CH165
<b>Security</b>	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.
<b>Data Rate</b>	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)
<b>Frequency</b>	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
<b>Communication Rate</b>	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
<b>Standard</b>	Bluetooth 4.0 (Support BLE)
<b>Power</b>	Class 2
<b>Distance</b>	>20m (industrial-grade Bluetooth adapter)

#### **4. CRUISE 1 THE THIRD PARTY APPLICATION DEVELOPMENT SUPPORT**

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

#### **5. CRUISE 1 PERIPHERALS AND ACCESSORIES**

<b>Standard accessories</b>	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
<b>Optional accessories</b>	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
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