



CRUISE 1 INDUSTRIAL SMARTPHONE

PRODUCT SPECIFICATION V2.1



1. CRUISE PERFORMANCE CHARACTERISTICS

CPU	Cortex™-A53 Octa-core 1.5 GHz
Operating System	Android5.1
RAM	2GB
ROM	16GB
SIM Card Interface	Micro SIM x2 (Dual-Card Dual-Standby, the main card supports LTE)
Expansion Slot	Micro SD Card, 32GB SDHC compatible
Interface/Communication	Waterproof Type C USB interface: support USB2.0 high speed ; Support OTG
Keypad	volume +, volume -, Power button, Scan button×2, Home button
Display	5.2 inch size IPS screen, Capacitive, touchable, dual mode touch-with or without a thick glove / with or without wet hand 1920×1080(FHD)
Power	Half-Removable 3.8V 4500mAh , li-ion rechargeable battery Bottom interface: Type C USB quick charging interface, intelligent identification of PC and special charger Back Pogo Pin interface: support for quick charging and USB data communication, intelligent identification of PC and special charger, VBAT power supply, Scan trigger interface
Battery Performance	Continue to work: more than 12 hours (normally display on and scan once every 6 seconds and WLAN transmission) Dormancy standby: more than 440 hours (LTE) online, offline (Airplane mode) is greater than 950 hours
Notification	Sound, vibration, LED indicator light
Audio	Built-in single speaker /1W, built-in double microphone(Dual mic noise reduction), the 3.5 mm stereo headset interface
Sensor	Acceleration sensor, gyroscope, electronic 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℃ to +50℃
Storage Temp	-40℃ to +50℃ (Battery included) -40℃ to +70℃ (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 DATA CAPTURE OPTIONS

Function 1	2D Image Scan Engine (Option 1)
Image Resolution	844(H)x640(V)
Rotate	360°
Pitch Angle	±45°
Skew Tolerance	±65°
Laser Safety Grade	Class II
Image Frame	60fps
Code Support	Aztec Code, Matrix 2 of 5, Codabar, MaxiCode, Codablock F, MicroPDF417, Code 11, MSI, Code 128, PDF417, Code 2 of 5, Plessey Code, Code 39, PosiCode, Code 93, QR Code, Data Matrix, RSS Expanded, EAN/JAN-13, RSS Limited, EAN/JAN 8, RSS-14, EAN-UCC Composite Codes, TCIF Linked Code 39, EAN-UCC Emulation, Telepen, IATA Code 2 of 5, Trioptic Code, Interleaved 2 of 5, UPC-A, UPC E Postal Codes (Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet),
Light source system	White light, laser aiming
Minimum printing contrast	20%
Function 2	2D Image Scan Engine (Option 2)
Image Resolution	1600(H)x 1200(V)
Rotate	360°
Pitch Angle	±60°
Skew Tolerance	±55°
Scan Depth	62-138mm (5mil Code39); 100-550mm(20mil Code128)
Image Frame	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, Industrial 2 of 5, Codabar, MSI, Code11 2D: PDF417, MicroPDF417, Composite Code, Data Matrix, Maxicode, QR Code, MicroQR, Aztec
Light source system	White light, Red aiming
Minimum printing contrast	40%
Function 3	Camera
Front Camera	

Photo Function	Fixed focus
Pixel	5.0 mega pixel
Rear Camera	
Maximum Resolution	4208 x 3120(Taking pictures); 1080p 30fps(camera) (optional:3264 x 2448(Taking pictures))
Photo Function	Phase Detection Auto Focus (optional: Auto Focus)
Pixel	13 million pixel (optional:8 million pixel)
Flashlight	Support double flashlights
Function 4	RFID Read/Write (HF)
Standards Support	Support ISO15693,ISO14443A/B(without encryption protocol), ISO14443A tag with encryption protocol (Mifare one S50,S70 and compatible with cards); Support NFC protocol
Operating Frequency	HF frequency 13.56MHz
Reading Distance	Typical values greater than 6cm (ISO15693), Typical values greater than 4cm (ISO14443A) Typical values greater than 1cm (ISO14443B) (Associated with tag)
Function 5	Security module
Type	Micro PSAM Card
Function 6	GPS Location information collection
Positioning system	GPS, Beidou, GLONASS (Three in one)
Frequency	GPS :L1(1.575GHz); Beidou: B1(1.561GHz); GLONASS:L1(1.602GHz)
Maximum number of channels	31channel
Sensitivity	-130dB(SNR value:42dBHz)
Accuracy	5-10 meter (OPEN SKY)

3. CRUISE WIRELESS DATA COMMUNICATION

Function 1	WLAN WIFI
Protocol	IEEE 802.11a/b/g/n/ac (2.4G/5G dual-frequency WIFI)
Frequency Range	Depending on the country (region),2.4GHz is 2.4GHz-2.496GHz; 5GHz is 5.15GHz-5.85GHz
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	11b DL≥5M UL≥5M; Max 11M
Protocol	11g DL≥25M UL≥25M; Max 54M
Frequency Range	11n DL≥75M UL≥75M; 11n @40MHz; Max 150M

Working Channel	11a DL≥25M UL≥25M; Max 54M
	11ac DL≥215M UL≥215M ;11ac @80MHz; Max 433M
Security	Built-in antenna
Function 2	WWAN All Network(7 mode 18 frequency)
Frequency Band	GSM: Qual 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)
Function 3	WPAN Bluetooth
Standard	Bluetooth 4.0(Support BLE)
Power	Class II

4. CRUISE THIRD PARTY APPLICATION DEVELOPMENT SUPPORT

System Software	Android 5.1
System programming environment	Eclipse, Android Studio

5. CRUISE EXTERNAL EQUIPMENT AND ACCESSORIES

Standard Accessories	Universal adapterx1, Type C USB cablex1, Hand Tetherx1,
Optional Accessories	Single-Slot Charging Dock, Single-Slot Charging Dock (Support Ethernet), 5-Slot Charging Dock, Protective cover, Screen protector