



## APAD SERIES TABLET

PRODUCT SPECIFICATION V1.8



## 1. APAD PERFORMANCE CHARACTERISTICS

<b>CPU</b>	Cortex™-A53 Quad core 1.2GHz
<b>Operating System</b>	Android 5.1
<b>RAM</b>	2GB
<b>ROM</b>	16GB
<b>Expansion Slot</b>	Micro SD Card, 32GB SDHC compatible
<b>Interface/Communication</b>	Industrial Micro USB interface, support USB2.0 HighSpeed, support OTG)
	Micro SIM Card, TF Card
<b>Keypad</b>	6 main keys
	3 side keys
<b>Display</b>	7" full-view LCD, capacitive, touch-with or without a thick glove/with dry or wet hand, touch pen
	1280(H)×800(W)WXGA
<b>Power Supply</b>	Non-removable 6200mAH rechargeable Li-ion battery
	Side interface: standard Micro USB charging interface, intelligent identification of PC and special charger
	Contact at the bottom of the tail plug interface: support for charging
<b>Battery Performance</b>	Continue to work: more than 12 hours(normally display on and scan once every 6 seconds and WLAN transmission)
	RTC time: more than 168 hours
	Dormancy standby: more than 1 months (GPRS) online, offline (GPRS) is greater than 1.5 month
<b>Notification</b>	Sound, vibration, LED indicator light
<b>Audio</b>	Built-in double speakers, built-in microphone, the 3.5 mm stereo headset interface
<b>Sensor (optional)</b>	Acceleration sensor, light sensor, electronic compass and gyroscope
<b>Dimension</b>	123(H)×199(W)×15(T)mm(21mm at barcode engine)
<b>Weight (including standard battery)</b>	485g(Including battery depends on different configurations)
<b>Operating Temp</b>	-20℃ to +50℃
<b>Storage Temp</b>	-40℃ to +60℃
<b>Humidity</b>	5% to 95% RH non-condensing
<b>Sealing Grade</b>	IP65(Credit card function does not support)
<b>Drop Specification</b>	1.2m ( concrete )
<b>ESD</b>	±15kV Air discharge, ±8kV direct discharge

## 2. APAD DATA CAPTURE OPTIONS

Function 1	2D Image Scan Engine
<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>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, Interleaved 2 of 5, Matrix 2 of 5, MaxiCode, MicroPDF417, MSI,PDF417 Postal Codes (Australian Post, China Post, Japanese Post, Planet Code,Postnet), QR Code, RSS Expanded, RSS Limited, RSS-14, TCIF Linked Code 39, Telepen, UPC-A, UPC-E etc.
<b>Light source system</b>	White light, laser aiming
<b>Minimum printing contrast</b>	20%
<b>Function 2</b>	<b>GPS Location information collection</b>
<b>Location</b>	GPS+GLONASS+ Beidou Navigation, support AGPS
<b>Working Mode</b>	GPS main location, Beidou Navigation and GLONASS assistant location
<b>Frequency</b>	GPS:L1(1.575GHz);Beidou Navigation:B1(1.561GHz); GLONASS:L1(1.602GHZ)
<b>Accuracy</b>	5-10meter(OPEN SKY)
<b>Function 3</b>	<b>Front Camera</b>
<b>Maximum Resolution</b>	1616V x 1232H pixel
<b>Camera</b>	Fixed focus
<b>Pixel</b>	2.0 megapixel
<b>Function 4</b>	<b>Rear Camera</b>
<b>Maximum image resolution</b>	3264 x 2448(taking pictures) ,720p 30fps(Camera)
<b>Pixel</b>	8.0 mega-pixel
<b>Camera</b>	Auto-focus
<b>Flash</b>	Support double flashlights
<b>Function 5</b>	<b>RFID Read/write (HF)</b>
<b>Standards Support</b>	Support ISO15693, ISO14443A/B (no encryption protocol),ISO14443A tag with encryption protocol(Mifare one S50,S70 and compatible with CARDS);Support NFC protocol Support for the two generation ID card reading
<b>Operating Frequency</b>	HF frequency band 13.56MHz
<b>Reading Distance</b>	Reading distance 0~5cm (ISO15693), 0-3.5cm(ISO14443A/B) (Associated with label)
<b>Function 6</b>	<b>Magnetic card, IC card</b>
<b>Magnetic card</b>	Meet ISO7811 standard Card feeding speed——10~120cm/s

	<p>The magnetic coercivity range: 300~4000 Oe</p> <p>Magnetic density: First rail 210BPI, Second rail 75BPI, Third rail 210BPI</p> <p>Available configuration:</p> <p>1:First rail or Second rail or Third rail</p> <p>2:First rail and Second rail</p> <p>3:Second rail and Third rail</p> <p>4: First rail and Second rail and Third rail</p>
<b>IC card</b>	<p>Meet ISO7816 standard</p> <p>Support membership card, prepaid cards and other common IC card, 4442 card support</p>

### 3. APAD WIRELESS DATA COMMUNICATION

Function 1	WLAN WIFI
<b>Protocol</b>	IEEE 802.11a/b/g/n(2.4G/5G dual-frequency WIFI)
<b>Frequency Range</b>	Depending on the country (region), 2.4GHz is 2.412GHz-2.472 GHz;5GHz is 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>Transmission Distance</b>	2.4 G : more than 150 meters, 5 G : more than 100 meters (industrial-grade AP, empty region)
<b>Data Rate</b>	802.11a: 6,9,12,18,24,36,48,54Mbps 802.11b: 1, 2,5.5,11Mbps 802.11g: 6,9,12,18,24,36,48,54Mbps 802.11n: 6.5,13,19.5,26,39,52,58.5,65Mbps(20MHz,Long GI,800ns) 802.11n: 7.2,14.4,21.7,28.9,43.3,57.8,65,72.2Mbps(20MHz,short GI,400ns)
Function 2	WWAN (All Network: 7 mode 15 frequency )
<b>Frequency Band</b>	GSM:850/900/1800Mhz TD-SCDMA:Band34,Band39 WCDMA:Band1,Band5 CDMA 1x /EVDO :BC0 TDD-LTE:Band38,Band39,Band40,Band41 FDD-LTE:Band1,Band3
<b>Communication Rate</b>	GPRS:DL / UL171.2kbps;EDGE:DL / UL384 kbps TD: DL 2.8 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
<b>Standard</b>	Bluetooth 4.0(Dual mode, support BLE)
<b>Power</b>	Class 2
<b>Distance</b>	>20m (industrial-grade Bluetooth adapter)

#### 4. APAD THIRD PARTY APP DEVELOPMENT SUPPORT

<b>System Software</b>	Android 5.1
<b>System programming environment</b>	Android IDE(Eclipse)

#### 5. APAD PERIPHERALS AND ACCESSORIES

<b>Standard Accessories</b>	The host charger 5V/2.5Ax1, Micro USB cablex1
<b>Optional Accessories</b>	Single-slot multifunctional charging base, Tail serial cable, Hand belt + Hand belt buckle, RS485 cable, Magnetic suction cable, Mounting bracket, Vehicle mount, knapsack, Touch pen