Athena Pad Air (Android) SERIES TABLET

PRODUCT SPECIFICATION V1.0

Athena Pad Air (Android) PERFORMANCE CHARACTERISTICS

CPU	Qualcomm 660, Octa-core, 2.2GHz
Operating System	Android 9.0
RAM	LPDDR4x 1866MHz 4GB and 6GB compatible
ROM	64GB, 32GB and 128GB compatible
Expansion Slot	Micro SD Card, maximum 128GB SDHC compatible
Interface/Communication	Type-C interface, Micro USB 3.0 interface as standard, USB2.0 compatible, support Displayport, heardphone and main device charging.
	Micro SIM Card, TF Card
Keypad	3 keys including power on/off, volume+ and Volume -
Display	10.1" full-view LCD, capacitive touch, touch-with or without a thick glove/with dry or wet hand
	1920(H)×1200(W), normal brightness (High brightness 800 nit optional)
Power Supply	Bottom contact interface DC IN: Maximum 27W
	Non-removable 10000mAH rechargeable Li-ion battery
	Micro USB and type-C interface, support QC3.0、PD charging, maximum 27W and 9V
Bottom Contact Extension Interface	USB2.0, UART, 5V output, DC charging, IO
Notification	One Red and green dual color: Red for charging (breathing for low power) and green for fully charged. One Red and blue dual color: Blue for new message (breathing) and red for scan indication.
Audio	Built-in dual stereo speaker, 4Ω2W*2, built-in dual microphone, support Type-C digital headphone.
Sensor (optional)	Acceleration sensor, optical sensor, electronic compass and gyroscope
Hand belt	Optional
Dimension	258*173*10.8 (12)mm
Weight (including standard battery)	<650g
Operating Temp	-10℃ to +50℃
Storage Temp	-20℃ to +60℃
Humidity	5% to 95% RH non-condensing
Sealing Grade	IP65
Drop Specification	1.2m (marble)
ESD	±15kV Air discharge, ±8kV direct discharge

1. Athena Pad Air (Android) DATA CAPTURE OPTIONS

Function 1	**2D　Image Scan Engine**
X3	2D Mipi interface
Function 2	**GPS Location information collection**
Location	GPS+GLONASS+ Beidou Navigation+Galilieo, QZSS, SBAS, support AGPS

Working Mode	GPS main location, Beidou Navigation, GLONASS and Galilieo assistant location
Frequency	GPS:L1(1.575GHz); Beidou Navigation:B1(1.561GHz); GLONASS:L1(1.602GHZ)
Accuracy	5-10meter(OPEN SKY)
Function 3	**Front Camera**
Pixel	8.0 mega
Camera	Fixed focus
Function 4	**Rear Camera**
Pixel	13 mega-pixel
Camera	PDAF
Flash	Support double flashlights
Function 5	**RFID Read/write (HF)**
Standards Support	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
Operating Frequency	HF frequency band 13.56MHz
Reading Distance	Reading distance 0~6cm (ISO15693), 0-4cm(ISO14443A/B) (varies by the labels)
Function 6	**Fingerprint Recognition (Optional)**
Fingerprint	508DPI, 256*360pix, support finger print recognition, second generation fingerprint module.

2. Athena Pad Air (Android) WIRELESS DATA COMMUNICATION

Function 1	**WLAN WIFI**
Protocol	IEEE 802.11a/b/g/n/ac(2.4G/5G dual-frequency WIFI) 2X2 MIMO
Frequency Range	Depending on the country (region), 2.4GHz is 2.412GHz-2.472 GHz;5GHz is 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.
Transmission Distance	2.4G: more than 150 meters, 5 G : more than 200 meters (industrial-grade AP, empty region)
Data Rate	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)
Frequency Band	GSM: 850/900/1800/1900 TD-SCDMA: B34/B39 WCDMA: B1/B2/B5/B8 CDMA: BC0 TDD-LTE: B34/B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B7/B8 Band B1+B3 download, and B39+B41 upload.
Communication Rate	LTE-FDD downloading rate as 300M and uploading rate as 50M LTE-TDD downloading rate as 234M and uploading rate as 30M
Function 3	WPAN Bluetooth
Standard	Bluetooth 5.0
Distance	>20m (industrial-grade Bluetooth adapter)