

ALINK-A300N

ALINK-A300N is a 2x2 MIMO, 802.11N/A/G/B

5GHz
Dual N-port
Dual
Polarization



2.4GHz
Dual N-port
Dual
Polarization



Features



- 2x2 MIMO, dual-radio, 5GHz/2.4GHz outdoor
- Long range up to 20Km
- 5GHz Bridge 802.11N/A
- 2.4GHz AP 802.11N/G/B
- Total 4x antenna ports; Bridge and AP each 2 antenna ports
- IP68 rated enclosure, true weather-proof, -35c ~ 75c
- Built-in lightning protection circuits

Specification

Standards Compliance	IEEE 802.11a/b/g/n; IEEE802.3; IEEE802.3u; IEEE802.3x
MCU	Atheros AR7141
RF	Atheros AR9220 (5GHz Backhaul) + AR9223 (2.4GHz AP)
SDRAM	32 M Byte
Flash	8 M Byte
Physical Interfaces	Auto sensing MDI/MDI-X Ethernet 10/100Base-T x 1: RJ-45
802.11 a/n (2x2) Radio as Bridge for Backhaul	
Radio Frequency Type	OFDM
Modulation	IEEE 802.11a/n: OFDM with BPSK, QPSK, 16QAM, 64QAM
Frequency Band	5.15 ~ 5.35 GHz 5.47 ~ 5.725 GHz 5.725 ~ 5.825 GHz
Transmission Power	23dBm (max)
Antenna Port	2 x N-type female Transmit and Receive diversity
Sensitivity	IEEE 802.11a: -96dBm @ 6Mbps; -83dBm @ 54Mbps IEEE 802.11n: -95dBm @ HT20; -91dBm @ HT40
Security Systems	64-bit/128-bit/152-bit WEP and WPA (-PSK with TKIP/AES) encryption
Data Rate	MCS 0 – MCS 7 (15/30/45/60/90/120/135/150Mbps) MCS 8 – MSD 15 (30/60/90/120/180/240/270/300Mbps)
Operation Mode	Bridge - PtP and PtMP (up to 8 links)
802.11 b/g/n (2x2) Radio as AP for broadcasting (serve clients)	
Radio Frequency Type	DSSS/OFDM
Modulation	IEEE 802.11n/g: OFDM with BPSK, QPSK, 16QAM, 64QAM IEEE 802.11b: DBPSK, DQPSK, CCK
Frequency Band	2.412~2.4835GHz
Transmission Power	26dBm (max)
Antenna Port	2 x N-type female Transmit and Receive diversity
Sensitivity	IEEE 802.11b/g: -96dBm @ 6Mbps; -83dBm @ 54Mbps



	IEEE 802.11n: -96dBm @ HT20; -90dBm @ HT40
Security Systems	64-bit/128-bit/152-bit WEP and WPA (-PSK with TKIP/AES) encryption
Operation Mode	AP
Software/Firmware	Suppressed SSID Adjustable transmit power Full/-3/-6/-9 dB Web-based configuration via popular browser (MS IE, Netscape...) Windows "IP_Discover" program to help find IP Remote Firmware upgrade via HTTP and configuration backup via Web Reset to default by WebUI ICMP Echo Support VLAN VPN pass-through (PPTP, L2TP, IPSEC) SNMP v1/v2c MIB support: MIB I, MIB II (RFC-1213) and Private MIB Long distance Bridge transmission: up to 1~35 Km (ACK timeout control) Support PPPoE Client, PPPoE pass-through Support Auto Reboot
Operating Environment	
Operating Temperature	-35 ~ +70°C
Storage Temperature	-40 ~ +80°C
Humidity	0 ~ 95% (Non-Condensing)
Altitude	4,572m
Lightning Protection	IEC 1000-4-2/ Instant Surge 4 KV
Wind Loading	90 mph(operational), 125mph(Survival)
Power Supply	
Power Source	PoE DC 48 Volt + 5%; 40Watt (Max.); AC adapter AC 100V ~ 240V
Power Consumption	15W Typical
Network Management System OS Support	Windows 2000/ XP/ Vista /Windows 7
Warranty	One year limited