



300 Mbps SINGLE Radio Series



The AIRNET 300 Mbps MIMO Outdoor AP/Bridge series is a high-performance Access Point and Bridge designed for enterprises and outdoor users looking for faster throughput and greater coverage. It is backward compatible with IEEE 802.11a/b/g and supports high-speed data transmission up to 300 Mbps to accommodate heavy traffic services such as multimedia streaming. Housed in a NEMA6/IP67 waterproof casing, AIRNET 300Mbps MIMO Outdoor AP/Bridge series is designed to withstand any extreme climatic conditions, making it the ideal solution for outdoor applications.

The AIRNET 300 Mbps MIMO Outdoor AP/Bridge series has the ability to operate in different operational modes and can be used in a wide variety of wireless applications like Point-to-Point, Point-to-Multipoint, Wireless ISP, and Hot Spot applications. The AIRNET 300 Mbps MIMO Outdoor AP/Bridge series meet all these needs with its MIMO technology. The integrated Repeater WDS mode lets you extend the wireless range and coverage of the wireless network feature creates a virtually larger wireless network infrastructure by linking up other access points. Perfect for applications requiring high bandwidth at a fraction of the cost of T1/E1 leased-line, with the additional advantage of zero monthly recurring cost from the service carrier.

Typical usages include bridging satellite offices, corporate LANs, school campus, as well as wireless Internet services, at distances up to 25 miles or 40 Km. The AIRNET 300 Mbps MIMO Outdoor AP/Bridge also represents the perfect solution for bridging networks that are impossible to connect using wired alternatives, including networks separated by difficult terrains, railroads, or bodies of water.

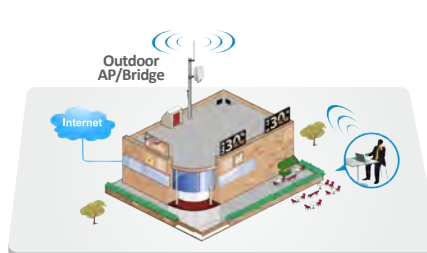
Features:

- Outdoor and Waterproof Design
- High speed data transfer rate up to 300 Mbps
- High Power up to 30dBm/1Watt for long distance (up to 25 miles or 40Km)
- Full IEEE 802.11 a/b/g/n compatibility allows inter-operation among multiple vendors
- Bridging and Routing Features
- Multicast Support for Video Surveillance Applications
- Long-Range Parameter Settings
- Power over Ethernet – PoE
- Supports 64/128 WEP, WPA and WPA2
- SNMP, Web base Management System and Windows-based utility
- Transmission Power Control (One dB per step)
- Bandwidth control based on IP and MAC Address
- SPI Firewall and packet/URL filtering
- Selectable Number of Tx/Rx chains (1x1 or 2x2)

Campus Application



Hotspot



Wireless ISP / Interbuilding





Specifications:

MODEL	AIR-BR600AGN	AIR-BR600GNH	AIR-BR600ANH
Operating Frequency	2.400 ~ 2.497 GHz 4.9GHz (Public Safety Band) 5.15~5.35 & 5.725~5.850 GHz (US) 5.15~5.35 GHz & 5.47~5.725GHz(Europe) Programmable for different country regulations Supper Channel: 2.3~2.5GHz & 4.9~6.1GHz	2.400 ~ 2.497 GHz Programmable for different country regulations Supper Channel: 2.3~2.5GHz	4.9GHz (Public Safety Band) 5.15~5.35 & 5.725~5.850 GHz (US) 5.15~5.35 GHz & 5.47~5.725GHz(Europe) Programmable for different country regulations Supper Channel: 4.9~6.1GHz
Adjustable RF Output Power	23dBm @ 11bg 21dBm @ 11gn HT20 21dBm @ 11gn HT40 21dBm @ 11a 21dBm @ 11an HT20 19.5dBm @ 11an HT40	30dBm @ 11bg 28dBm @ 11gn HT20 25dBm @ 11gn HT40	30dBm @ 11a 28dBm @ 11an HT20 26dBm @ 11an HT40
Sensitivity	802.11b: -94dBm@1Mbps, -94dBm@11Mbps 802.11g: -94dBm@6Mbps, -78dBm@54Mbps 802.11a: -94dBm@6Mbps, -77dBm@54Mbps 802.11gn HT20: -93dBm@MCS0, -74dBm@MCS15 802.11gn HT40: -90dBm@MCS0, -72dBm@MCS15 802.11an HT20: -93dBm@MCS0, -74dBm@MCS15 802.11an HT40: -90dBm@MCS0, -72dBm@MCS15	802.11b: -96dBm@1Mbps, -91dBm@11Mbps 802.11g: -96dBm@6Mbps, -83dBm@54Mbps 802.11gn HT20: -92dBm@MCS0, -73dBm@MCS15 802.11gn HT40: -90dBm@MCS0, -71dBm@MCS15	802.11a: -96dBm@6Mbps, -79dBm@54Mbps 802.11an HT20: -95dBm@MCS0, -75dBm@MCS15 802.11an HT40: -92dBm@MCS0, -74dBm@MCS15
Range	2.4GHz: 12 miles (20 Km) with 24dBi antenna 5GHz: 12 miles (20 Km) with 32.5dBi antenna	25 miles (40 Km) with 24dBi antenna	20 miles (32Km) with 32.5dBi antenna
Ethernet Port	10/100Base-TX (RJ-45)		
Antenna Connector	Two N Female		
RF Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)		
Channel Width	5, 10, 20, 40 MHz		
Data Rate	54, 48, 36, 24, 18, 12, 11, 5.5, 2, 1Mbps, MCS0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 (*) 20MHz Channel Width (HT20) Max. 72.2Mbps @ MC7 with 1Nss (**) Max. 144.4Mbps @ MC15 with 2Nss (*) MCS: Modulation Coding Scheme for IEEE802.11n (**) Nss: Number of Spatial Streams	40MHz Channel Width (HT40) Max. 150Mbps @ MC7 with 1Nss Max. 300Mbps @ MC15 with 2Nss	
RF Operation Mode	Access Point, Station, Access Point WDS, Station WDS Repeater WDS, Access Point + Router Station + Router		
Data Security	Station Isolation WEP 64/128 bit Mac Address Filtering IEEE 802.1x—TLS, TTLS, PEAP WPA-PSK and WPA-EAP (TTLS, PEAP) , WPA2 (with AES encryption technique)		
Network Advanced Features	IP Routing - static Routing, RIP v1/v2, NAT and Port Forwarding (Routing mode only) PPPoE Client, PPTP for VPNs Network (Routing mode only) 802.1d Spanning Tree Protocol SNMP support DHCP Server, Relay, and Client / DHCP Server Reservation Bandwidth Control 802.1Q Tag and Untag VLAN / VLAN Pass-through Selectable Number of Tx/Rx chains (1x1 or 2x2) Proprietary Long Distance Algorithm for ACK and CTS timeout adjustment support Firewall and Packet/URL Filtering (Routing mode only) Multicast Routing support Monitor Utils (Ping, ARP table, Bridge Table, DHCP active leases, CCQ)		
Link Parameters	Antenna alignment and RSSI Signal levels Site Survey Radio and Ethernet Traffic Statistics		
Management	Web, SNMP, Telnet, SSH, and utility Windows based		
Power	Power over Ethernet – PoE 802.3af (AC 110~220/DC 48V) with surge protector		
Dimensions	19"X14"X6" (483mmx356mmx152mm)		
Weight	8Lbs (3.6kg) brackets and PoE included		
Cable	75' (25m) length Outdoor CAT5E Rated Shielded Cable		
Humidity	10-90%, (Operating)		
Temperature	-49 to 149 Deg F (-45 to 65 Deg C)		
Electromagnetic Compatibility	FCC Part 15 class B, CE Mark, ETSI 300 328		

Ordering Information:

- **AIR-BR600AGN** AIRNET 300 Mbps 802.11a/b/g/n 2.4/5GHz MIMO Outdoor AP/Bridge with PoE (23dBm/200mW)
- **AIR-BR600GNH** AIRNET 300 Mbps 802.11b/g/n 2.4GHz MIMO Outdoor AP/Bridge High Power with PoE (30dBm/1Watt)
- **AIR-BR600ANH** AIRNET 300 Mbps 802.11a/n 5GHz MIMO Outdoor AP/Bridge High Power with PoE (30dBm/1Watt)