



## AIRNET 54Mb Outdoor AP/Bridge

The AIRNET 54Mb Outdoor AP/Bridge series is a high-performance Access Point and Bridge designed for enterprises and outdoor users. It is compatible with IEEE 802.11a/b/g and supports high-speed data transmission up to 54Mb. Housed in a NEMA6/IP67 waterproof casing, AIRNET 54Mb Outdoor AP/Bridge series is designed to withstand any extreme climatic conditions, making it the ideal solution for outdoor applications.

The AIRNET 54Mb Outdoor AP/Bridge series has the ability to operate in 7 different modes and can be used in a wide variety of wireless applications like Point-to-Point, Point-to-Multipoint, Wireless ISP, Hot Spot and Mesh Network applications. The integrated WDS (Wireless Distribution System) 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 31 miles or 50 Km (without amplifier). The Airnet 54Mb Outdoor Bridge High Power 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.

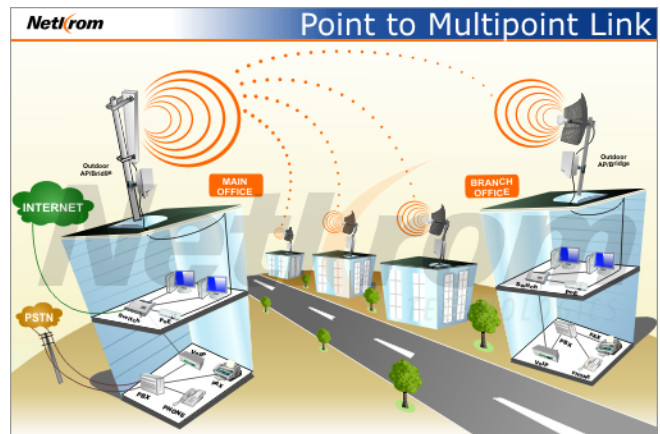
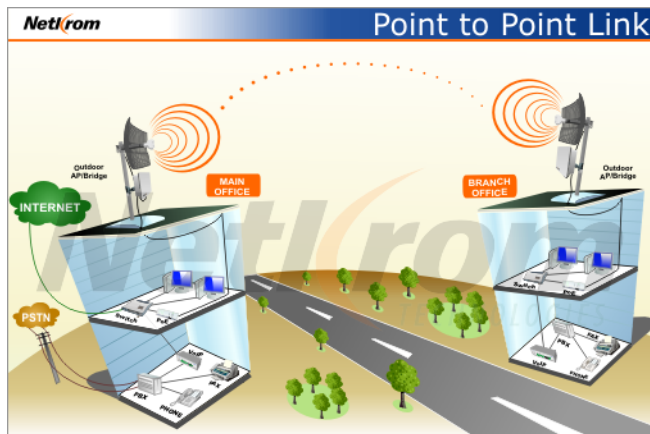
The AIRNET 54Mb Outdoor AP/Bridge series is based in Atheros eXtended Range (XR) chipset and provides powerful features such as High Power, higher throughput, Long Range Parameter Settings, high security 64/128/152 WEP and WPA2, DHCP Server, Spanning Tree Protocol, Web-based Configuration and QOS feature which allows media files to be delivered over the network more efficiently.

Designed for outdoor use, the AIRNET 54Mb Outdoor AP/Bridge series is able to draw power through Cat-5 Ethernet cable from our DC injector. This ensures that power is available wherever you need it, without the need of expensive electrical work often associated with outdoor installations.

### Features :

- ▶ Outdoor and Waterproof Design
- ▶ Full IEEE 802.11a/b/g compatibility allows inter-operation among multiple vendors
- ▶ High Power up to 30dBm/1000mW for long distance (up to 31 miles or 50Km) without amplifier
- ▶ High speed data transfer rate up to 54Mbps
- ▶ Multi SSID (up to 16 Virtual APs)
- ▶ WDS - Wireless Distribution System for Mesh applications
- ▶ Long-Range Parameter Settings
- ▶ Power over Ethernet – PoE
- ▶ Supports 64/128/152 WEP, WPA and WPA2
- ▶ SNMP, Web base Management System and Windows-based utility
- ▶ Supports Atheros extended Range (XR) technology
- ▶ Spanning Tree Protocol and DHCP Server
- ▶ Bandwidth control
- ▶ SPI Firewall and packet/URL filtering

### Applications:





### General Specifications :

<b>Ethernet Port</b>	Ethernet 10/100Base-TX (RJ-45)
<b>RF Operation Mode</b>	Access Point Client mode Wireless Routing Client Gateway Wireless Adapter Transparent Client Repeater
<b>Data Security</b>	WEP 64/128/152 - bit Mac Address Filtering IEEE 802.1x—TLS, TTLS, PEAP WPA-PSK and WPA-EAP, WPA2 (with AES encryption technique)
<b>Network Advanced Features</b>	IP Routing - static Routing, NAT and Port Forwarding (Wireless Routing Client and Gateway mode only) WDS - Wireless Distribution System PPPoE Client (Wireless Routing Client and Gateway mode only) PPTP for VPNs Network 802.1d Spanning Tree Protocol SNMP support DHCP Server and Client Bandwidth Control VLAN technology Proprietary Long Distance Algorithm for ACK and CTS timeout adjustment support Firewall and Packet/URL Filtering (Wireless Routing Client and Gateway mode only) Load Balancing & Fail-Over Redundancy (Gateway mode only)
<b>Link parameters</b>	Antenna alignment and RSSI Signal levels Site Survey Radio and Ethernet Traffic Statistics
<b>Management</b>	Web and utility Windows based
<b>Antenna Connector</b>	N Female
<b>Power</b>	Power over Ethernet – PoE 802.3af (AC 110~220/DC 48V) with surge protector
<b>Dimensions L x W x H</b>	10" x 7.1" x 2.25" (254 x 180 x 57mm)
<b>Weight</b>	5.2 Lb (2.4 Kg.) include PoE Injector, Mounting Brackets and accessories
<b>Humidity</b>	-10-90%, (Operating)
<b>Temperature</b>	-30~70 degree C (Operating)
<b>Electromagnetic Compatibility</b>	FCC Part 15 class B, CE Mark, ETSI 300 328

### Radio Specifications:

Model	Frequency	RF Output Power	Data Rate
<b>AIR-BR500GHP</b>	2.400 ~ 2.497 GHz	26dBm	54, 48, 36, 24, 18, 12, 11, 5.5, 2, 1Mbps Up to 108Mb only for AIR-BR500GUHP, AIR-BR500AHP
<b>AIR-BR500GUHP</b>	Programmable for different country regulations	30dBm	
<b>AIR-BR500AGH</b>	<b>802.11b/g:</b> 2.400 ~ 2.497 GHz	<b>802.11b/g:</b> 23dBm <b>802.11a:</b> 23dBm	
	<b>802.11a:</b> 4940 ~ 4990MHz (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		
<b>AIR-BR500AHP</b>	<b>802.11a:</b> 4940 ~ 4990MHz (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	26dBm	



**Additional Radio Specifications:**

Model	RF Modulation	Sensitivity	Range
AIR-BR500GHP	802.11b: DSSS (DBPSK, DQPSK, CCK)	802.11b: -92dBm@1Mbps, -87dBm@11Mbps	25 miles (40 Km) with 24dBi antenna
AIR-BR500GUHP	802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)	802.11g: -90dBm@6Mbps, -70dBm@54Mbps	31 miles (50 Km) with 24dBi antenna
AIR-BR500AGH	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11a/g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)	802.11b: -92dBm @1Mbps, -87dBm@11Mbps 802.11a/g: -90dBm@6Mbps, -70dBm@54Mbps	2.4GHz 15 miles (24 Km) with 24dBi antenna 5GHz 15 miles (24 Km) with 32.5dBi antenna
AIR-BR500AHP	802.11a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)	802.11a: -90dBm@6Mbps, -70dBm@54Mbps	20 miles (32Km) with 32.5dBi antenna

**Ordering Information:**

- ▶ **AIR-BR500GHP** AIRNET 54Mb 802.11b/g 2.4GHz Outdoor AP/Bridge High Power (26dBm/400mW)
- ▶ **AIR-BR500GUHP** AIRNET 54Mb 802.11b/g 2.4GHz Outdoor AP/Bridge with 802.3af PoE High Power (30dBm/1Watt)
- ▶ **AIR-BR500AGH** AIRNET 54Mb 802.11a/b/g 2.4/5GHz Outdoor AP/Bridge (23dBm/200mW)
- ▶ **AIR-BR500AHP** AIRNET 54Mb 802.11a 5GHz Outdoor AP/Bridge with 802.3af PoE High Power (26dBm/400mW)



**WE PROTECT YOUR INVESTMENT: WiMAX and 801.11n Support**

As a company focused exclusively on Wireless data transmission, Netkrom is committed to long-term product planning, backwards compatibility and the integration of new technologies that will allow it to support traditional enterprise markets. The Netkrom Outdoor AP/Bridge Series will be upgradeable to WiMAX and future 802.11n.

**OEM/ODM/WISP ATTENTION**

- For special frequency version, MMDS and Licensed band (2300 to 2700 MHz & 4900 to 6100 MHz) Contact us
- For customization or special firmware version and support for open source Linux software, contact us.