



The AIRNET GIGA 4.9-5.8GHz MIMO Bridge Point to Point kit Series is an optimal solution for a large number of applications. In its simplest form, it can be deployed by many organizations to provide Ethernet extensions (i.e. LAN-to-LAN) between two locations at elevated rates. In its most advanced configurations, The AIRNET GIGA 4.9-5.8GHz MIMO Bridge Point to Point kit is able to provide a complete infrastructure that enables companies of all sizes to connect their remote sites to the headquarters, thus allowing the simultaneous transmission of multi-protocol services such as voice, video and data. This family of solutions can also be deployed by mobile operators requiring multi-megabit capacity for their backhaul links. Thanks to the MIMO and the Gigabit technology, your link speed will increase up to ten times the conventional speed.

The AIRNET GIGA 4.9-5.8GHz MIMO Bridge Point to Point kit Series operates in the 5.1 to 5.8 GHz Unlicensed Frequency Band and 4.9GHz Public Safety Band, and it comes complete with a set of accessories to ease outdoor installations. As the most cost-effective point-to-point solution from AIRNET family, any deployment will enjoy a quick return on investment.

The AIRNET GIGA 4.9-5.8GHz MIMO Bridge Point to Point kit Series is the easiest-to-install family of broadband wireless bridges on the market. Requiring no training or wireless experience, they can be installed within hours, as they come pre-configured by default. Each solution includes everything needed to set up a link right out of the box. Included in the AIRNET GIGA 4.9-5.8GHz MIMO Bridge Point to Point kit Series are (QTY 2) AIRNET GIGA 4.9-5.8GHz MIMO Bridge - Integrated Antenna, (QTY 2) Wall / Pole Mounting system, (QTY 2) 75' Outdoor Rated CAT6A cables and (QTY 1) 802.3af Gigabit Power over Ethernet system.

Features:

- High speed data transfer rate up to 300 Mbps thanks its MIMO and Gigabit technology.
- Dual 802.3af Gigabit Power over Ethernet
- Outdoor and waterproof carrier grade
- Plug and Play – No complicated setup required
- IEEE 802.11 a/n - MIMO (2x2) technology
- High gain 24dBi dual polarity integrated antenna
- High Power up to 30dBm/1W. Long range, up to 25 miles or 40 Km.
- Superior spectral efficiency
- Supports 64/128 WEP, WPA and WPA2
- Low Packet Latency < 2ms
- Transmission Power Control (One dB per step)
- Bandwidth Control

Applications:

- High-speed Point-to-Point Backhaul link.
- Long Range Backhaul Link.
- Rural Broadband Service Infrastructure.
- Video Surveillance Point-to-Point Backhaul.
- Reliable backup for fiber lines.
- VoIP over Wireless Systems.
- Remote Video and Media Servers.

Interbuilding (PTP)



Video Surveillance



AIR-PTP1000L AIRNET GIGA 1000 Series



Specifications:

Model	AIR-PTP1000L
Range	Up to 25 miles (40Km)
Ethernet Port	2 x Gigabit 10/100/1000 Base-T (RJ-45)
Operating Frequency / Channel	5.15~5.35 & 5.725~5.850 GHz (FCC - US) 5.15~5.35GHz & 5.47~5.725GHz (ETSI - EU) 4.9GHz Public Safety Band -Programmable for different country regulations.
RF Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
RF Multiplexing	TDD (Time Division Duplexing)
Channel Width	5, 10, 20, 40 MHz (with Short and Long Guard Interval)
Adjustable RF Output Power	30dBm @ 11a, 28dBm @ 11an HT20, 26dBm @ 11an HT40 (Adjustable RF Output Power), up to 50dBm at EIRP
Sensitivity	802.11a: -96dBm@6Mbps, -79dBm@54Mbps 802.11an HT20: -95dBm@MCS0, -74dBm@MCS15 802.11an HT40: -92dBm@MCS0, -74dBm@MCS15
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 40MHz Channel Width (HT40) Max. 150Mbps @ MC7 with 1Nss Max. 300Mbps @ MC15 with 2Nss (*) MCS: Modulation Coding Scheme for IEEE802.11n (**) Nss: Number of Spatial Streams
Real Throughput	200 Mbps
Latency	< 2ms
RF Operation Mode	Access Point, Station, Access Point WDS, Station WDS Repeater WDS, Access Point + Router Station + Router
Data Security	WEP 64/128/152 - 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 (Routing mode only) PPTP for VPNs Network 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 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	Gigabit Power over Ethernet – Gigabit PoE 802.3af (AC 110~220/DC 48V) with surge protector
Dimensions	16"x16"x16" in (406x406x406mm) complete set
Weight	26 Lb (11.7 Kg) complete set
Cable	75' (25m) length Outdoor CAT6A 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
Antenna Characteristics	
Gain	24 dBi
Frequency Range	4.920 – 5.875 MHz
3dB Beam Angle (E-Plane)	8 Deg
3dB Beam Angle (H-Plane)	8 Deg
Polarization	Dual Polarization (Horizontal & Vertical)

Ordering Information

- AIR-PTP1000L

AIRNET Gigabit 300Mbps 4.9-5.8GHz MIMO 2x2 Bridge Point to Point kit (up 25 miles or 40 Km)