



AIRNET

300 Mbps CPE610 SERIES

IEEE 802.11 a/n - 2x2 MIMO Technology

AIRNET 300 Mbps CPE 610 Series are used to provide internet access to end-users using point-to-multipoint architecture at 300 Mbps in 5GHz ISM unlicensed band. Wireless data links take place where there is no infrastructure for internet access or in places where bandwidth offered by current channels is too low. With our wireless equipment you can get high bandwidth on very long distances at a very reasonable price. Our equipment provides various features including Routing, Firewall NAT, DHCP, bandwidth control and many more.

The Client Primary Equipment (CPE) with Integrated Antenna is the most comprehensive wireless solution, which includes powerful wireless router with Power over Ethernet (PoE) feature, all embedded in high-gain directional antenna. Flat Panel Antenna offers wide territorial coverage with no signal waste and the Power over Ethernet injector provides the possibility to deliver both necessary power and data to your router (which is attached to the antenna) over a single Ethernet cable.

Features:

- Cost effective solution
- Complete Outdoor Weatherproof Solution
- All-in-One Wireless CPE device
- Power over Ethernet included
- Web Management and SNMP support
- High-speed wireless data links (Up to 300Mbps)
- Connection distance up to 8 miles (12km)
- Firewall, NAT, IP Routing, DHCP
- MultiSSID (up to 4 SSIDs with unique MAC address (BSSID))
- Bandwidth control
- High level security with full 64/128Bit WEP Encryption
- WDS - Wireless Distribution System
- Antenna Alignment and Wireless Site Survey
- Fast and simple installation for base station and Clients

Applications:

Wireless ISP / Interbuilding





Model:	AIR-CPE610AN	AIR-CPE610ANH
RF Output Power	30dBm at Radio 47dBm at EIRP	30dBm at Radio 52dBm at EIRP
Range	5 miles (8 Km)	8 miles (12 Km)
Ethernet Port	10/100Base-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) 5.15~5.25GHz (TELEC - JAPAN) (*Programmable for different country regulations)	
RF Modulation	802.11a: OFDM (BPSK,QPSK, 16-QAM, 64QAM: 2/3, 3/4, 5/6) CSMA/CA & TDMA	
Sensitivity	802.11a: -96dBm@6Mbps, -79dBm@54Mbps 802.11an HT20: -95dBm@MCS0, -75dBm@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 (*) Available Channel Width 5, 8, 10, 20, 25, 30, 40MHz 20MHz Channel Width (HT20) 40MHz Channel Width (HT40) Max. 72.2Mbps @ MC7 with 1Nss (**) Max. 144.4Mbps @ MC15 with 2Nss Max. 150Mbps @ MC7 with 1Nss Max. 300Mbps @ MC15 with 2Nss	
	(*) MCS: Modulation Coding Scheme for IEEE802.11n (**) Nss: Number of Spatial Streams	
RF Operation Mode	Access Point (bridge or router function) AP Client (bridge or router function) Station (bridge or router function) Repeater (bridge function) WDS (bridge function) Ad-Hoc (bridge function)	
Data Security	WEP 64/128/152 - bit Mac Address Filtering IEEE 802.1x—TLS, TTLS, PEAP WPA-PSK and WPA-EAP, WPA2 (with AES encryption technique)	
Network Advanced Features	Transparent Bridging Layer 2 (Mac Address) Forwarding Layer 3 (IP Address) Forwarding Static Routing DHCP Server and Client PPPoE Client/PPTP Client Vlan (802.1Q) Support Advance Statistics Graphical User Interface Monitor Utilities (Ping and Trace Route)	
Link parameters	Antenna alignment and RSSI Signal levels Site Survey Radio and Ethernet Traffic Statistics	
Management	Web and Netkrom NMS – Network Management System	
Power	Power over Ethernet – PoE 802.3af (AC 110~220/DC 24V) with surge protector	
Dimensions	10.95"4.81"x3.72" in (278.5x122.2x94.5mm)	
Weight	1.5 Lb (0.7 Kg) complete set	
Cable	50", 100", 150", or 200" length Outdoor CAT5E Rated Shielded Cable (Optional)	
Humidity	-10-90%, (Operating)	
Temperature	-4 to 158 Deg F (-20 to 70 Deg C)	
Compliant	FCC Part 15 class B, CE Mark, ETSI 300 328	
Antenna Characteristics	AIR-CPE610AN / AIR-CPE610ANH	
Gain	17 dBi / 22dBi	
Frequency Range	5.15 - 5-90 GHz	
Horizontal -3dBm Beamwidth	30 Deg	
Vertical -3dBm Beamwidth	33 Deg	
Polarization	Vertical	

Ordering Information:

- AIR-CPE610AN** AIRNET 300 Mbps 5GHz 802.11a/n CPE mid range subscriber 5 miles - 8 km (PoE, 17dBi MIMO Antenna, 26dBm/400mW Radio and Router in one!)
- AIR-CPE610ANH** AIRNET 300 Mbps 5GHz 802.11a/n CPE long range subscriber 8 miles - 12 km (PoE, 22dBi MIMO Antenna, 30dBm/1watt Radio and Router in one!)