



AIRNET

150 Mbps CPE600 SERIES

IEEE 802.11 b/g/n - 1x1 MIMO Technology

AIRNET 150 Mbps CPE600 series are used to provide internet access to end-users using point-to-multipoint architecture at 150 Mbps in 2.4GHz and 5GHz ISM unlicensed band and 2.3 GHz and 4.9GHz Licensed band. Wireless data links take place where there is no infrastructure for internet access, when is no possible to have a remote wired network or in places where bandwidth offered by current channels is too low. With our wireless Client Primary Equipment (CPE), you can get high bandwidth on very long distances at a very reasonable price. Our equipment provides various features including Routing, NAT, DHCP, bandwidth control and many more.

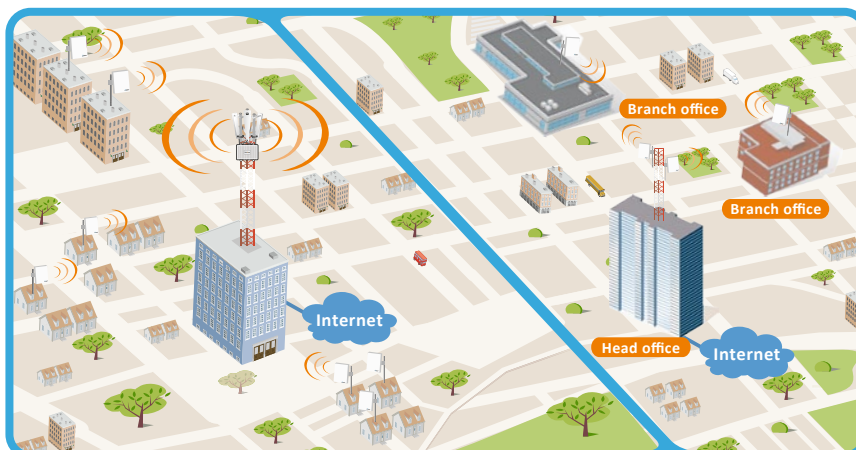
The Client CPE with Integrated Antenna is the most comprehensive wireless solution, which includes powerful wireless router with Power over Ethernet (PoE) feature, all embedded in high-gain directional antenna. Flat Panel Antenna offers wide territorial coverage with no signal waste and the Power over 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
- IEEE 802.11 a/b/g/n - MIMO (1x1) technology
- High-speed wireless data links (Up to 150Mbps)
- Single polarity integrated antenna (Up to 22 dBi)
- High Power up to 30dBm/1Watt
- Power over Ethernet – PoE
- Supports 64/128 WEP, WPA and WPA2
- Superior spectral efficiency
- SNMP, Web base Management System and Windows-based utility
- Transmission Power Control (One dB per step)
- Bandwidth control
- SPI Firewall and packet/URL filtering

Applications:

Wireless ISP / Interbuilding





Specifications:

	AIR-CPE600GNH	AIR-CPE600ANH
Ethernet Port	10/100Base-TX (RJ-45)	
RF Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)	
Channel Width	5, 10, 20, 40 MHz	
Operating Frequency	2300 ~ 2400 MHz (MMDS Band) (*) 2.412 ~ 2.497GHz (ISM Band) (*) (*) Programmable for different country regulations	4.9 GHz (Public Safety Band) (*) 5GHz (ISM Band) (*) (*) Programmable for different country regulations
Adjustable RF Output Power	30dBm at Radio 49dBm at EIRP	
Sensitivity	802.11b: -94dBm@1Mbps, -92dBm@11Mbps 802.11g: -94dBm@6Mbps, -74dBm@54Mbps 802.11gn HT20: -92dBm@MCS0, -73dBm@MCS7 802.11gn HT40: -90dBm@MCS0, -71dBm@MCS7	802.11a: -96dBm@6Mbps, -79dBm@54Mbps 802.11an HT20: -95dBm@MCS0 802.11an HT40: -92dBm@MCS0
Data Rate	54, 48, 36, 24, 18, 12, 11, 5.5, 2, 1Mbps, MCS0,1,2,3,4,5,6,7 (*) 20MHz Channel Width (HT20) Max. 65Mbps @ MC7 with 1Nss (**) (*) MCS: Modulation Coding Scheme for IEEE802.11n (**) Nss: Number of Spatial Streams	40MHz Channel Width (HT40) Max. 150Mbps @ MC7 with 1Nss
RF Operation Mode	Access Point, Station, Access Point WDS, Station WDS Repeater WDS, Access Point + Router Station + Router	
Range	20 miles (32 Km)	15 miles (24 Km)
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, 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, CCO)	
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	15.4"x15.4"x4.0" in (391x391x101mm)	
Weight	4 Lb (1.8 Kg) complete set	
Cable	50", 100", 150", or 200" length Outdoor CAT5E Rated Shielded Cable (Optional)	
Humidity	10-90%, (Operating)	
Temperature	-49 to 167 Deg F (-45 to 75 Deg C)	
Electromagnetic Compatibility	FCC Part 15 class B, CE Mark, ETSI 300 328	
Antenna Characteristics		
Gain	19 dBi	22 dBi
Frequency Range	2300 – 2500 MHz	4.9Ghz – 5.8Ghz
3db Beam Angle (E-Plane)	18 Deg	
3dB Beam Angle (H-Plane)	18 Deg	
Polarization	Single Polarity, Vertical	

Ordering Information

- AIR-CPE600GNH AIRNET 150Mbps 2.3 to 2.5GHz 802.11g/n MIMO 1x1 CPE long range subscriber 20 miles - 32Km (PoE, 19dBi Antenna, 30dBm Radio and Router in one!)
- AIR-CPE600ANH AIRNET 150Mbps 4.9 to 5.8GHz 802.11a/n MIMO 1x1 CPE mid range subscriber 15 miles - 24Km (PoE, 22dBi Antenna, 30dBm Radio and Router in one!)