

AP-5010 Series

Rugged Outdoor Fixed Wireless Solution



AP-5010-1E

5GHz with integrated antenna, single LAN port with turbo mode

AP-5010-2E

5GHz with integrated antenna, dual LAN ports with turbo mode

AP-5010-1E1N

5GHz with external antenna, single LAN port with turbo mode

Overview

AP-5010 series is design for professional, mission critical wireless deployment where product reliability and durability coupled with large stable data throughput are crucial factors to the success of business operation. It is design for fast and no frill installation; suitable for short to mid distance range PTP and PTMP deployment.

Compliant to IEEE802.11a (5GHz) standard, all devices are tested to deliver a high data throughput of up to 20Mbps in normal mode and 45Mbps in turbo mode (where turbo mode available).

The ruggedized outdoor IP65 casing is both water and dust resistant. An additional air outlet valve further reduces water condensation cause by pressure build up due to weather changes. The LAN port is built with ESD protection which limits voltage surge of up to 8kV conducted and 15kV through air.

Key Features

- Up to 6km with integrated antenna
- Up to 10km with external antenna
- Outdoor waterproof IP65 Casing
- Up to 108 Mbps data rate (where turbo mode available)
- 48V PoE supporting up to 100m Ethernet connection (where POE available)

Applications

The AP-5010 is design for a wide range of applications which include:

- Inter-buildings business data connectivity
- Wireless client for WISP deployment
- Wireless security surveillance system
- Wireless VoIP
- Wireless E1/T1



Typical Performance

Integrated Antenna on both AP and Client*:

Link Distance	Achievable TCP Throughput
< 1km	20Mbps
2km	16Mbps
4km	12Mbps
6km	8Mbps

Integrated Antenna on both AP and Client*:

Antenna Gain	Link Distance	Achievable TCP Throughput
24dBi	15km	16Mbps
24dBi	20km	9Mbps
31dBi	20km	18Mbps
31dBi	25km	16Mbps

Wireless (5GHz)

- IEEE 802.11a compliant
- 4.900 ~ 5.875GHz

Modulation

802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
 802.11b/g: OFDM (64QAM, 16QAM, QPSK, BPSK)

Data Rate (with Turbo Mode)

Max. 108Mbps, Auto fall back to min. 6Mbps

Data Rate (without Turbo Mode)

Max. 54Mbps, Auto fall back to min. 6Mbps

Tx Power & Control

Max. 20dBm, in 1dB step

RX Sensitivity (5GHz)

Rate (Mbps)	Sensitivity (dBm)
54	-71
48	-74
36	-81
24	-84
18	-87
12	-88
9	-89
6	-91

Antenna Type

AP-5010-IE/2E: Integrated Directional 18dBi (5.1~5.9GHz), 14dBi (4.9~5.1 GHz)

AP-5010-IE1N: External Only

Connector Type for External Antenna

AP-5010-IE1N: N-Type

Power Supply

- Passive Power over Ethernet, 48V_{DC} / 1.0A
- Device can also be powered by IEEE802.3af PoE (where POE available)

Operation Mode

- Wireless Access Point
- Wireless Access Point + WDS
- Wireless Client
- Wireless Bridge

Encryption & Access Control

- WEP up to 152 bits
- WPA/2-PSK (AES and TKIP)
- WPA/2 Radius Server for EAP-TLS, TTLS, PEAP (AP only)
- MAC Address Control
- Wireless to wireless user isolation

Management

- SNMP V1 & V2c
- Syslog
- IP address discovery software
- Wireless & Ethernet Statistics

QoS & Protocol Filtering

- Prioritization of data type
- IEEE 802.11e
- Broadcast, Multicast, PPPoE
- Disabling Broadcast/Multicast to Non-WDS Station

Regulatory Compliance

CE: EN 301 893 V1.3.1 (2005-08), RoHS

Power Consumption

Max. 8W

Environmental

- Operating temperature: -30°C to +60°C
- Humidity: Max 95%, non condensing
- Weather rating: IP65
- Wind survivability: 120km/h

Standard Package

- AP-5010
- 48V_{DC} Passive PoE Injector (where POE available)
- 1.5m power cord with Euro Plug
- Pole mounting bracket Kit

Optional Accessories

Description	Order Part No.
5GHz 8dBi Omni Directional Antenna	RFAnt-UOD-08
5GHz 18dBi Patch Antenna	RFAnt-5400W1G0P20
5GHz 31dBi Grid Antenna	RFAnt-50GP-31
CFD400 RF Cable, 1m	RFC-CFD400-010-NN
CFD400 RF Cable, 3m	RFC-CFD400-030-NN
RF Surge Arrestor	RFARR-03
LAN Surge Arrestor	LANARR-01

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