

The Wireless High Power and High Gain Client Bridge/Access Point/ WDS (wireless distribution system) operates seamlessly in the dual band 2.4/5 GHz frequency spectrum supporting the 802.11b (2.4GHz, 11Mbps) and the newer, faster 802.11g (2.4GHz, 54Mbps)/ 802.11a (5GHz, 54Mbps) wireless standards.

EOC-8610S EXT has high transmitted output power and high receivable sensitivity. High output power and high sensitivity can extend range and coverage to reduce the roaming between APs to get more stability wireless connection.

EOC-8610S EXT can collocate with any high gain antenna want for users' environment. To protect your wireless connectivity, EOC-8610S EXT can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA2/WPA/802.1x for powerful security authentication. The MAC addresses filter lets you select exactly which stations should have access to your network



Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
High Output Power: up to 22 dBm in 11a, up to 27 dBm in 11g and up to 28 dBm in 11b	Spreads the operation distance and reduce the roaming between APs to get more stability wireless connection
External Antenna for 2.4/5GHz	Collocate with any antenna for user's environment
IEEE 802.11a/b/g compliant	Fully Interoperable with IEEE802.11a / IEEE802.11b / IEEE802.11g compliant devices
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
WPA2/WPA/ IEEE 802.1x support	Powerful data security
Hide SSID (AP Mode)	Avoids unallowable users sharing bandwidth, increases efficiency of the network
DHCP Client/ Server	Simplifies network administration
MAC address filtering (AP Mode)	Ensures secure network connection
Watertight and Weatherproof	Avoid water invaded and weather corroded
Power-over-Ethernet (IEEE802.3af Compliant)	Flexible Access Point locations and cost savings

*** Subject to change without prior notice

Technical Specifications

Data Rates

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps

Standards

IEEE802.11a/b/g, IEEE802.3, IEEE802.3u, IEEE802.3af, IEEE802.1f, IEEE802.1x

Compatibility

IEEE 802.11g/ IEEE 802.11b

Power Requirements

Active Ethernet (Power over Ethernet) –48 VDC/0.375A
External Unit: Auto sensing 100/240 VAC; 50/60 Hz

Regulation Certifications

FCC Part 15/UL, ETSI 300/328/CE

RF INFORMATION

Frequency Band

802.11a: 5.15~5.25GHz, 5.25~5.35GHz, 5.47~5.725GHz, 5.725~5.825GHz

802.11b/g: U.S., Europe and Japan product covering 2.4 to 2.484 GHz, programmable for different country regulations

Media Access Protocol

Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

Modulation Technology

Orthogonal Frequency Division Multiplexing (OFDM)
DBPSK @ 1Mbps
DQPSK @2Mbps
CCK @ 5.5 & 11Mbps
BPSK @ 6 and 9 Mbps
QPSK @ 12 and 18 Mbps
16-QAM @ 24 and 36 Mbps
64-QAM @ 48 and 54 Mbps

Operating Channels

802.11b/g:

11 for North America, 14 for Japan, 13 for Europe,

802.11a:

US/Canada:12 non-overlapping channel (5.15~5.35GHz, 5.725~5.825GHz)

Europe:19 non-overlapping channel (5.15~5.35GHz, 5.47~5.825GHz)

Japan: 4 non-overlapping channel (5.15~5.25GHz)

China: 5 non-overlapping channel (5.725~5.85GHz)

Receive Sensitivity (Typical)

802.11a:

-88dBm @ 6Mbps,
-70dBm @ 54Mbps

802.11g:

-90 dBm @ 6Mbps,
-74 dBm @ 54Mbps

802.11b:

-95 dBm @ 1Mbps
-90 dBm @ 11Mbps

Available transmit power (Typical)

- 5.150~5.250 GHz(IEEE802.11a)

22dBm @6 ~ 24Mbps

20dBm @36Mbps

18dBm @48Mbps

17dBm @54Mbps

- 5.250~5.350GHz(IEEE802.11a)

20dBm @6 ~ 24Mbps

18dBm @36Mbps

16dBm @48Mbps

15dBm @54Mbps

- 5.470~5.725GHz(IEEE802.11a)

21dBm @6 ~ 24Mbps

19dBm @36Mbps

17dBm @48Mbps

16dBm @54Mbps

- 5.745~5.85GHz (IEEE802.11a)

20dBm @6 ~ 24Mbps

18dBm @36Mbps

16dBm @48Mbps

15dBm @54Mbps

- 2.412~2.472G(IEEE802.11g)

27dBm @6 ~ 24Mbps

25dBm@36Mbps

24 dBm@48Mbps

23dBm@54Mbps

- 2.412~2.472G(IEEE802.11b)

28dBm. @1, 2, 5.5 and 11Mbps

RF Connector

SMA (Fr) Type for 2.4/5GHz

NETWORKING

Topology

Ad-Hoc, Infrastructure

*** Subject to change without prior notice