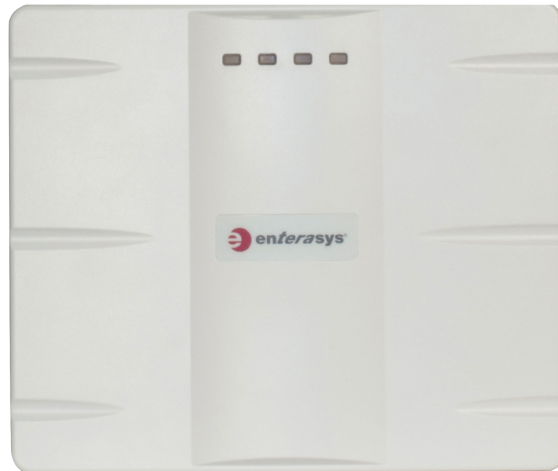


IdentiFi 3600 Indoor Access Point

Fully Featured, Enterprise-Grade Wi-Fi



Product Overview

The AP3600 series was the first 802.11abgn indoor access point in the industry to support 3x3 MIMO 11n performance using existing 802.3af power investments. This access point is designed to operate in enterprise environments that require always-on connectivity. The AP3600 Series is equally adept at serving high-bandwidth video applications as well as low-latency voice applications. The AP3610 comes with an integrated six antenna array for ease of installation.

The AP3600 platform supports dynamic radio management, spectrum analysis, self-forming and self-healing meshing, security, role-based authentication, authorization, and access control. The 3x3:2 platform is capable of delivering 600Mbps over-the-air-performance and up to 50,000 packets per second on the wire port.

PRODUCT FEATURES	AP3610
GENERAL	
High performance enterprise class AP	√
Number of radios	2
MIMO implementation for high performance 11n throughputs	3x3
Number of spatial streams	2
Maximum Throughput Per Radio / Total	300Mbps/600Mbps
Wired performance in packets per second (pps)	50,000 pps
Number of SSIDs supported per radio / total	8/16
Simultaneous users per radio / total	127/254
Simultaneous Voice calls (802.11b, G711, R>80)	12
Mode of operation	Semi-autonomous
Plug and play operation/Zero touch deployment	√
Security and Standards	WPA, WPA2 (AES), 802.11i, 802.1x, IPSec, IKEv2, PKCS #10, X509 DER / PKCS #12
MULTIPLE OPERATING MODES	
Clients serving access points	√
Intelligent thin AP	Encryption, Security, QoS and RF management done on AP
Bridging data traffic at AP and/or at controller simultaneously	√
Simultaneous RF monitoring and client services	√
Multi-channel WIDS	Sensor-mode
Multi-channel WIPS	Sensor-mode
Remote access point	√
RF spectrum analysis	Sensor-mode
Self-forming and self-healing meshing	√
RADIO CHARACTERISTICS	
Max transmit power	(Note: maximum transmit power is defined by local regulatory requirement combined with antenna type)
Radio 1 (5GHz)	22 dBm
Radio 2 (2.4GHz)	23 dBm
Max antenna gain (integrated antenna)	
Radio 1 (5GHz)	6 dBi
Radio 2 (2.4GHz)	3 dBi
ADAPTIVE RADIO MANAGEMENT	
Dynamic Channel Control	802.11h: DFS & TPC support (ETSI)
Efficient use of the spectrum with a multi-channel architecture	√
Automatic transmit power and channel control	√
Self-healing with coverage gap detection	√
Band steering with multiple steering modes	√
Spectrum load balancing of clients	√
Airtime fairness	√
Performance protection in congested RF environments	√
Mitigates co-channel interference with coordinated access	√
QOS FOR APPLICATIONS	
Quality of Service (WMM, 802.11e)	√
Call Admission Control (TSPEC)	√
Power Save (U-APSD)	√
Fast secure roaming and handover between APs	√
Pre-Authentication (Pre-Auth)	√
Opportunistic Key Caching (OKC)	√
Support voice, video and data using the same SSID	√

PRODUCT FEATURES	AP3610
Prioritize voice over data for both tagged and untagged traffic	√
Rate limiting (rule and user-based)	√
Rule and role based QoS processing	√
MULTICAST RATE CONTROL	
Multicast to Unicast Conversion	√
Adaptable rate multicast	√
Power save mode optimization for multicast	√
WIRELESS SERVICES	
Media Access Protocol	CSMA/CA with ACK
Data Rates	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps 802.11n: See 802.11n Performance table below
Frequency Bands	802.11a/n: <ul style="list-style-type: none"> • 5.15 to 5.25 GHz (FCC / IC / ETSI) - Indoor • 5.25 to 5.35 GHz (FCC / IC / ETSI) - Indoor / Outdoor • 5.47 to 5.725 GHz (FCC / IC / ETSI) - Indoor • 5.725 to 5.850 GHz (FCC / IC) - Indoor / Outdoor 802.11b/g/n: <ul style="list-style-type: none"> • 2.400 to 2.4835 GHz (FCC / IC / ETSI) - Indoor / Outdoor
Wireless Modulation	802.11a: OFDM 802.11b: DSSS 802.11g: DSSS and OFDM 802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM 802.11n High-throughput (HT) support: HT 20/40 802.11n Packet aggregation: A-MPDU, A-MSDU
Receive Sensitivity (typical)	802.11a: 6 Mbps/-93 dBm, 54 Mbps/-80 dBm 802.11n 5 GHz HT20 Mode: 6.5 Mbps(MCS0)/-94 dBm, 130 Mbps(MCS15)/-72 dBm 802.11n 5 GHz HT40 Mode: 15 Mbps(MCS0)/-89 dBm, 300 Mbps(MCS15)/-68 dBm 802.11b: 1 Mbps/-93 dBm, 11 Mbps/-90 dBm 802.11g: 6 Mbps/-92 dBm, 54 Mbps/-81 dBm 802.11n 2.4 GHz HT20 Mode: 6.5 Mbps(MCS0)/-94 dBm, 130 Mbps(MCS15)/-74 dBm 802.11n 2.4 GHz HT40 Mode: 15 Mbps(MCS0)/-88 dBm, 300 Mbps(MCS15)/-69 dBm
INTERFACES	
# 10/100/1000 Base T Ethernet autosensing link	1
Console port for the ease of installation and management	√
MOUNTING	
Wall mounting bracket	√
Drop-ceiling mounting bracket	Optional
Environmental	Operating: Temperature 0° C to +50° C (+32° F to +122° F) Humidity 0%-95% (noncondensing) Storage: Temperature -5° C to +50° C (+23° F to +122° F) Transportation: Temperature -40° C to +70° C (-40° F to +158° F) 2002/95/EC (RoHS Directive), 2002/96/EC (WEEE Directive), Ministry of Information Order #39 (China RoHS)

PRODUCT FEATURES	AP3610
Safety	UL / IEC / EN 60950-1; CAN/CSA 22.2 # 60950-1-03 UL 2043 Plenum Rating (Indoor Access Points) European 2006/95/EC Low Voltage Directive
Compliance	<ul style="list-style-type: none"> FCC CFR 47 Part 15.107 and 15.109 Class B (FCC 47 CFR, Part 15.205, 15.207, 15.209, FCC 47 CFR, Part 2.109, 2.1093, FCC OET No. 65) ICES-003 Class B RSS-210, RSS-102 (RF Exposure) R&TTE Directive 1999/5/EC EN 301 893 EN 300 328 2004/108/EC EMC Directive EN 301 489 -1 & 17 EN55011/CISPR 11 Class B, Group 1 ISM EN55022/CISPR 22 Class B EN55024/CISPR 24 EN / UL 60601-1-2 EN 50385
MECHANICAL	
Dimensions (W x H x L)	(8.4" x 2.2" x 7.1")
Weight	628.4g
Max power consumption	12.8W (Typical 11W)
Warranty	Lifetime

Ordering Information

PART NUMBER	DESCRIPTION
ACCESS POINTS	
WS-AP3610	Dual Radio 802.11a/b/g/n, 3x3:2, indoor access point with six internal antenna array
ACCESSORIES (OPTIONAL)	
WS-MB361020-01	Secure mounting Kit with Kensington lock slot and integrated cable routing for AP36xx
WS-MB361020-12	Drop ceiling mounting bracket for indoor AP36xx (9/16 or 15/16 rail)
WS-MB361020-21	Drop ceiling rail adjustable bracket for 1/2", 15/16" and 1 1/2" rails (requires WS-MB361020-01 to be ordered separately)
WS-MBUNIVERSAL-01	Universal mounting bracket adapter for existing installs (Cisco, Aruba, Trapeze, RoamAbout) - Refer to manual for specific access point model support
WS-PS361020-MR	AP36xx AC Power Supply - Multi-Region (not available in the EU)
WS-PS3X48-MR	AP3610 Series AC Power Supply - Multi-Region
MID-SPAN POE DEVICES (OPTIONAL)	
PD-3501G-ENT	Single port, 1 Gigabit 802.3af PoE Midspan

802.11n Performance

DATA RATES (MBPS)

2.4GHZ / 5GHZ				
	SPATIAL STREAMS	HT20 NORMAL GI	HT40 NORMAL GI	HT40 SHORT GI
MCS0	1	6.5	13.5	15
MCS1	1	13	27	30
MCS2	1	19.5	40.5	45
MCS3	1	26	54	60
MCS4	1	39	81	90
MCS5	1	52	108	120
MCS6	1	58.5	121.5	135
MCS7	1	65	135	150
MCS8	2	13	27	30
MCS9	2	26	54	60
MCS10	2	39	81	120
MCS11	2	52	108	150
MCS12	2	78	162	180
MCS13	2	104	216	240
MCS14	2	117	243	270
MCS15	2	130	270	300

Warranty

As a customer-centric company, Extreme Networks is committed to providing quality products and solutions. In the event that one of our products fails due to a defect, we have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired or media replaced as soon as possible. For full warranty terms and conditions please go to: <http://www.extremenetworks.com/support/enterasys-support/how-to/warranty/>.

Service & Support

Extreme Networks provides comprehensive service offerings that range from Professional Services to design, deploy and optimization of customer networks, customized technical training, to service and support tailored to individual customer needs. Please contact your Extreme account executive for more information about Extreme Service and Support.



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