IdentiFi™ AP3705 Indoor Access Point

Enterprise-grade Performance and Security Without the Premium Cost

BENEFITS

Business Alignment

- Support for demanding voice/ video/data applications to enhance mobile worker productivity and convenience
- Role-based grouping of users, devices, and applications to deliver priority, QoS, and security in accordance with business needs
- Seamless roaming across an entire multi-subnet campus without the need for cumbersome client software
- Integrated management, security, and QoS features reduce operating cost and ensure a consistent user experience regardless of location

Operational Efficiency

- Centralized visibility and control from Extreme Networks Wireless Management Suite and Extreme Networks NMS accelerate problem resolution, optimize network utilization, and automate management
- Adaptive architecture reduces complexity and optimizes information flow for each application
- Dynamic Radio Management ensures optimal AP coverage and maximizes the availability and quality of wireless service across the enterprise





Product Overview

The AP3705i is a feature-rich 802.11abgn access point leveraging the newest radio technology to reduce cost without sacrificing functionality. Designed to blend into office, classroom, or hotel environments, the AP3705i is ideal for providing secure 11abgn connectivity for high-density environments such as schools, hotels, and conference centers. The 3705i comes packed with the latest in Wi-Fi technology including dynamic radio management, beamforming, spectrum analysis with interference classification, self-forming and self-healing meshing, security, role-based authentication, authorization, and access control. Optimized for drop ceiling deployments, the 2x2:2 platform is equipped with an integral four antenna array with beamforming, capable of supporting 600Mbps over-the-air-performance and up to 40,000 packets per second on the wire port. The 3705i comes with integral clips allowing the AP to be installed directly onto most drop ceilings right out-of-the-box. This green AP uses less than 9W of power fully loaded and includes the Extreme Networks Lifetime Warranty making it the best value in the industry!



 Flexible Client Access optimizes throughput for 802.11n clients in today's mixed a/b/g and n client environments

Security

- Authentication and authorization functions include role-based access control (using 802.1X, MAC, and captive portal) and authentication at the AP
- Wireless Intrusion Prevention (WIPS) functions provide continuous scanning, threat classification, rogue AP detection, and countermeasures against possible attacks
- Integration of security policies (NAC, IPS) across the wired/ wireless networks enables quick diagnosing and resolution of security threats
- Integration of Policy Manager across the wired/wireless networks dynamically oversees user access at the wireless network point of entry

Support and Service

- Industry-leading customer satisfaction and first call resolution rates
- Lifetime warranty for indoor access points
- Personalized services, including site surveys, network design, installation, and training

Specification

PRODUCT FEATURES	3705i			
GENERAL				
High performance enterprise class AP	✓			
Number of radios	2			
MIMO implementation for high performance 11n throughputs	2x2			
Number of spatial streams	2			
Maximum throughput per radio / total	300Mbps / 600Mbps			
Wired performance in packets per second (pps)	40,000 pps			
Number of SSIDs per radio / total	8 / 16			
Simultaneous users per radio / total	127 / 254			
Mode of operation	Semi-Autonomous			
Plug and play operation/zero touch deployment	/			
AP and the controller run the same firmware versions	/			
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			
Distributed and centralized data paths within same SSID	/			
Application based distributed and centralized data paths within same session	/			
Simultaneous RF monitoring and client services	✓			
In-channel WIDS	✓			
In-channel WIPS	✓			
Locates devices and threats via RF triangulation	✓			
Self-forming and self-healing meshing	/			
Remote access point	✓			
Software-based, end-to-end data and control plane encryption	/			
Private and public cloud deployments	✓			
HYBRID OPERATION				
Security scanning and serve clients on same radio	✓			
Security scanning and spectrum analysis on same radio	✓			
Spectrum analysis and serve clients on same radio	✓			
RADIO CHARACTERISTICS				
Max transmit power (dBm)				
Radio 1 (5GHz)	25 dBm			
Radio 2 (2.4GHz)	GHz) 24 dBm			
Max Antenna gain (dBi)				
Radio 1 (5GHz)	3 dBi			
Radio 2 (2.4GHz)	3 dBi			



PRODUCT FEATURES	3705i
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	/
Mitigate adjacent channel interference with optimized receive sensitivity	/
Efficient reuse of channels at shorter intervals	/
Mitigates non 802.11 inference without dedicated radios	1
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)	1
Bonjour/LLMNR/UPnP identification, containment and control	/
Support voice, video and data using the same SSID	/
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



PRODUCT FEATURES	3705i		
	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		
	Receive Sensitivity		
Data Rates	802.11a: • -95dBm @ 6Mbps • -80dBm @ 54Mbps		
	802.11g: • -94dBm @ 6Mbps • -79dBm @ 54Mbps		
	802.11b: • -97dBm @ 1Mbps • -95dBm @ 11Mbps		
	802.11n: See 802.11n Performance table below		
Frequency Bands	802.11a/n: • 5.15 to 5.25 GHz (FCC / IC / ETSI) • 5.25 to 5.35 GHz (FCC / IC / ETSI) • 5.47 to 5.725 GHz (FCC / IC / ETSI) • 5.725 to 5.850 GHz (FCC / IC) 802.11b/g/n: • 2.400 to 2.4835 GHz (FCC / IC / ETSI)		
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 802.11n Advanced Features: LDPC, STBC and TxBF		
INTERFACES			
# 10/100/1000 Base-T Ethernet autosensing link	1		
Console port for the ease of installation and management	✓		
MOUNTING			
Tool-less drop ceiling rail (9/16, 15/16, 1.5") installation	✓		
Integrated/built-in drop ceiling rail clips	✓		
Environmental	Plenum rated (EN/UL 2043)		
	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)		



PRODUCT FEATURES	3705i
Compliance	FCC CFR 47 Part 15, Class B ICES-003 Class B FCC Subpart C 15.247 FCC Subpart E 15.407 RSS-210 EN 301 893 EN 300 328 EN 300 328 EN 301 489 1 & 17 EN / UL 60601-1-2 EN 50385 EN 55011 (CISPR 11) Class B Group 1 ISM EN 55022 (CISPR 22) AS/NZS3548 (CISPR22) International (including China) IEC 60950-1 IEC 60825 Europe EN 60950-1 EN 60950-1 EN 60950-1 EN 60950-1 EN 60950-1 CSA 22.2 No.60950-1-03 Australia AS/NZS 60950.1
MECHANICAL	
Dimension (Outer Diameter x Height)	6.625" OD, 1.75" Height
Weight	24.692 oz (700 g)
Maximum Power Consumption	9W
Warranty	Lifetime

Ordering Information

DESCRIPTION
dio 802.11a/b/g/n, 2x2:2 MIMO indoor access point with four internal antenna array and integrated clips a rail drop ceiling mounting acket, or protruded drop ceiling bracket is sold separately)
wall mounting bracket for AP3705i
ed drop ceiling mounting bracket for AP3705i
gion 48V Indoor External Power Supply for the AP3705i (May 2014)
ort, 1 Gigabit 802.3af PoE Midspan



802.11n Performance Data Rates (Mbps)

2.4GHZ/5GHZ					
	SPATIAL STREAMS	HT20 NORMAL GI	HT20 SHORT GI	HT40 NORMAL GI	HT40 SHORT GI
MCS0	1	6.5	NA	13.5	15
MCS1	1	13	NA	27	30
MCS2	1	19.5	NA	40.5	45
MCS3	1	26	NA	54	60
MCS4	1	39	NA	81	90
MCS5	1	52	NA	108	120
MCS6	1	58.5	NA	121.5	135
MCS7	1	65	72.2	135	150
MCS8	2	13	NA	27	30
MCS9	2	26	NA	54	60
MCS10	2	39	NA	81	120
MCS11	2	52	NA	108	150
MCS12	2	78	NA	162	180
MCS13	2	104	NA	216	240
MCS14	2	117	NA	243	270
MCS15	2	130	144.4	270	300

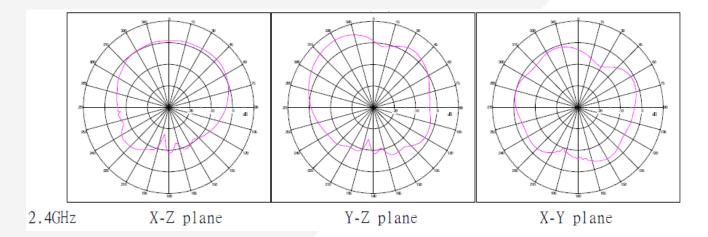


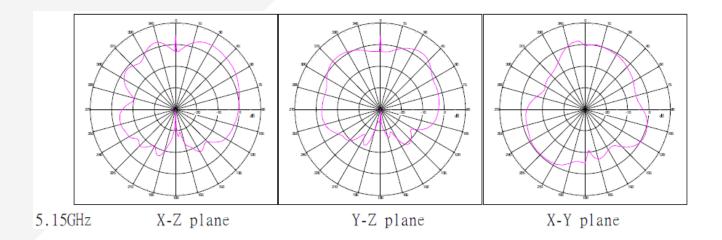
Receive Sensitivity (dBm)

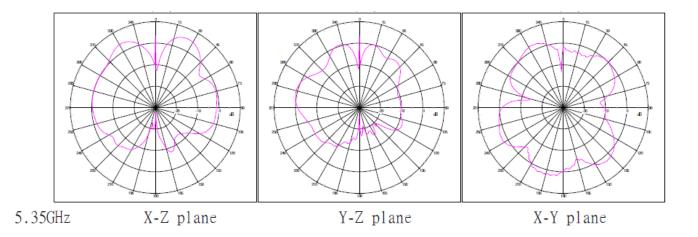
		2.4GHZ		5GHZ	
	SPATIAL STREAMS	HT20 NORMAL GI	HT20 SHORT GI	HT40 NORMAL GI	HT40 SHORT GI
MCS0	1	-94	-92	-95	-92
MCS1	1	-93	-91	-94	-91
MCS2	1	-91	-88	-93	-88
MCS3	1	-88	-86	-87	-86
MCS4	1	-84	-82	-83	-82
MCS5	1	-80	-78	-81	-77
MCS6	1	-78	-76	-78	-76
MCS7	1	-77	-74	-76	-73
MCS8	2	-93	-91	-94	-91
MCS9	2	-92	-90	-93	-90
MCS10	2	-91	-88	-93	-88
MCS11	2	-88	-86	-87	-86
MCS12	2	-84	-82	-83	-82
MCS13	2	-80	-78	-81	-77
MCS14	2	-78	-76	-78	-76
MCS15	2	-73	-70	-72	-67



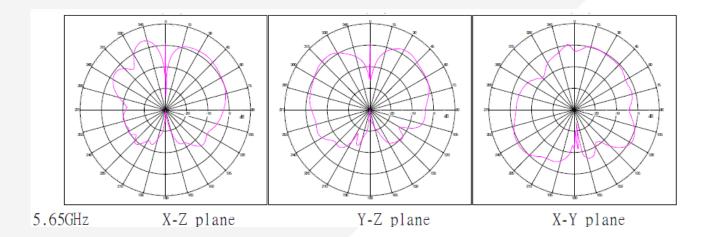
3705i Antenna Patterns

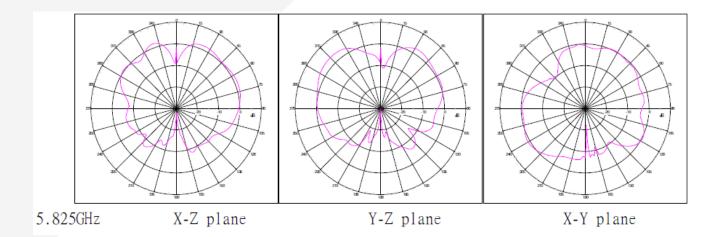














Warranty

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.



http://www.ExtremeNetworks.com/contact / Phone +1 408 579 2800

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