



XA4 HIGH DENSITY EXTERNAL ANTENNA ACCESS POINT

The Xirrus XA4 High Density Access Point with external antenna connectors is the highest capacity plenum rated Wi-Fi AP on the planet and delivers massive scalability to meet the demands of today's mobile users. This indoor High Density AP features powerful multi-core integrated controller, application-level intelligence, automated provisioning, and optional cloud management. The High Density AP provides the flexibility to connect various types of external antennas for unique coverages. This AP is ideal for providing robust wireless connectivity in locations such as convention centers, airports, train stations, bus stations, warehouses, and manufacturing facilities.

CONFIGURATION SPECIFICATIONS

	XA4-240
Chassis Dimensions	13"
Supported Standards	802.11 a/b/g/n/ac (Wave 2)
Total Number of Radios	4 total: 3 - 5GHz , 1 - 2.4GHz / 5GHz software programmable
Radio Type	4x4 11ac 3.47Gbps
MIMO Technology	MU-MIMO: 16 streams
Channel Bonding	up to 160MHz
Maximum Wi-Fi Bandwidth	13.88Gbps
Wi-Fi Threat Sensor	Yes
Antennas	16 RP-SMA female Connectors
Maximum Associated Devices	960
Maximum SSIDs	16
Maximum VLANs	64
Wired Uplinks - support four modes 802.3ad (Aggregate traffic), broadcast, link-backup (failover), load balance	1 - 2.5GbE, 1 - GbE
Maximum Power Consumption	46W
Weight	5.5lbs



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TECHNICAL SPECIFICATIONS

Features	Specifications	
RF Management	Dynamic channel configuration Dynamic cell size configuration Monitor radio for threat assessment and mitigation Wired and Wireless RMON / Packet Captures Radio assurance for radio self test and healing	RF monitor 2.4 & 5GHz Honeypot Control – Increase available 2.4 & 5GHz wireless device density through management of spurious 2.4 & 5GHz association traffic. Re-use and increase wireless device density through tight power controls.
High Availability	Supports hot stand-by mode for mission critical areas	
Environmentally Friendly	Supports ability to turn off radios based on schedule configuration	
Wireless Protocols	IEEE 802.11a, 802.11ac, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11w	
Wired Protocols	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, 1000BASE-T, 802.3ab 1000BASE-T, 802.3bz 2.5GBASE-T IEEE 802.1q – VLAN tagging IEEE 802.3ad – Link aggregation IEEE 802.1d – Spanning tree IEEE 802.1p – Layer 2 traffic prioritization DHCP option 82	
IPv6 Support (in CLI only)	IPv4 and IPv6 dual stack client support IPv6 only network Increase wireless device density through control of unnecessary IPv6 traffic over IPv4 only networks IPv6 functions: IP addressing, DNS, filters, application control, syslog, SNMP management, SSH, Telnet, FTP, DHCP clients	
RFC Support	RFC 768 UDP RFC 791 IP RFC 2460 IPV6 (Bridging only) RFC 792 ICMP RFC 793 TCP	RFC 826 ARP RFC 1122 Requirements for internet hosts – communication layers RFC 1542 BOOTP RFC 2131 DHCP
Security	WPA IEEE 802.11i WPA2, RSN RFC 1321 MD5 Message-digest algorithm RFC 2246 TLS protocol version 1.0	RFC 3280 Internet X.509 PKI certificate and CRL profile RFC 4347 Datagram transport layer security RFC 4346 TLS protocol version 1.1
Encryption Types	Open, WEP, TKIP-MIC: RC4 40, 104 and 128 bits SSL and TLS: RC4 128-bit and RDA 1024 and 2048 bit	
Authentication	<ul style="list-style-type: none"> • IEEE 802.1x • RFC 2548 Microsoft vendor-specific RADIUS attributes • RFC 2716 PPP EAP-TLS • RFC 2865 RADIUS Authentication • RFC 2866 RADIUS Accounting • RFC 2867 Tunnel Accounting • RFC 2869 RADIUS Extensions • RFC 3576 Dynamic Authorizations extensions to RADIUS • RFC 3579 RADIUS Support for EAP • RFC 3748 EAP-PEAP 	<ul style="list-style-type: none"> • RFC 5216 EAP-TLS • RFC 5281 EAP-TTLS • RFC 2284 EAP-GTC • RFC 4186 EAP-SIM • RFC 3748 Leap Passthrough • RFC 3748 Extensible Authentication Protocol • Web Page Authentication • WPR, Landing Page, Redirect • Support for Internal WPR, Landing Page and Authentication • Support for External WPR, Landing Page and Authentication • Support for Xirrus EasyPass Access Service



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Features	Specifications	
Regulatory Compliance	EMC, Safety and Wireless <ul style="list-style-type: none"> FCC CFR 47 Part 15, Class B ICES-003 Class B FCC Subpart C 15.247 FCC Subpart E 15.407 RSS-247 EN 301 893 EN 300 328 EN 301 489 1 & 17 EN 62311 EN 55022 (CISPR 22) AS/NZS4268 + CISPR22 	Safety <ul style="list-style-type: none"> IEC 60950-1 EN 60950-1 UL 60950-1 CSA 22.2 No.60950-1-03 AS/NZS 60950.1 Air handling space (UL 2043)
Environmental Specifications	Operating Temperature: 0-50C, 0-90% humidity, non-condensing Storage Temperature: -40C to 70C	
Channel Support 2.4GHz (Channel selections are based upon country code selections)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	
Channel Support 5GHz (Channel selections are based upon country code selections)	U-NII-1 – Non-DFS channels 36 40 44 48 U-NII-2A DFS channels* 52 56 60 64	U-NII-2C DFS channels* 100 104 108 112 116 120 124 128 132 136 140 144 U-NII-3 Non-DFS channels 149 153 157 161 165
Management Interfaces	Command line interface Web interface (http / https)	Xirrus Management System (XMS) XMS-Cloud XMS-Enterprise
Management	<ul style="list-style-type: none"> SNMP v1, v2c, v3 RFC 854 Telnet RFC 1155 Management Information for TCP/IP Based Internets RFC 1156 MIB RFC 1157 SNMP RFC 1212 Concise MIB Definitions RFC 1213 SNMP MIB II RFC 1215 A Convention for Defining Traps for use with the SNMP RFC 1350 TFTP RFC 1643 Ethernet MIB RFC 2030 Simple Network Time Protocol SNTP RFC 2578 Structure of Management Information Version 2 (SMIv2) RFC 2579 Textual Conventions for SMIv2 RFC 2616 HTTP 1.1 RFC 2665 Definitions of Managed Objects for the Ethernet Like Interface Types RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions RFC 2819 Remote Network Monitoring Management Information Base 	<ul style="list-style-type: none"> RFC 2863 The Interface Group MIB RFC 3164 BSD Syslog Protocol RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3) RFC 3416 Version 2 of the Protocol Operations for the Simple Network Management Protocol (SNMP) RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP) RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP) RFC 3584 Coexistence between Version 1, Version 2, and Version 3 of the Internet-standard Network Management Framework RFC 3636 Definitions of Managed Objects for IEEE Xirrus Private MIBs Integration with Splunk for accurate search and analysis of intra-organizational IT events Netflow Export v9 and IPFIX compatibility allows for IP traffic statistics collection RFC 6455 Two way WebSocket based communication protocol STOMP Simple Text Oriented Message Protocol for message oriented middleware

* DFS channels will be available upon regulatory certification



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RECEIVE SENSITIVITY¹

2.4 GHz	XA4-240	5 GHz	XA4-240	5 GHz	XA4-240
802.11b		802.11a		802.11ac VHT40	
1 Mbps	-95	6 Mbps	-89	MSC0	-87
11Mbps	-88	54 Mbps	-74	MSC9	-61
802.11g		802.11n HT20		802.11ac VHT80	
6 Mbps	-93	MSC0	-90	MSC0	-84
54 Mbps	-75	MSC7	-71	MSC9	-58
802.11n HT20		802.11n HT40		802.11ac VHT160	
MSC0	-91	MSC0	-87	MSC0	
MSC7	-72	MSC7	-68	MSC9	
802.11n HT40		802.11ac VHT20			
MSC0	-88	MSC0	-90		
MSC7	-69	MSC9	-66		

¹ Single radio chain

Part Number	Description
CONFIGURED MODELS	
XA4-240	Plenum rated High Density AP with external antenna connectors, consisting of four 3.47Gbps capable 802.11ac (Wave 2) 4x4 MU-MIMO radios with integrated controller
SOFTWARE LICENSES	
AOS-APPCON	Application Control license enabling Deep Packet Inspection (DPI) for application visibility and control on 1 radio
ACCESSORIES	
ANT-IN-DIRXX-4X4-RPSMA	30 and 60 degree 4x4 antenna for both 2.4 and 5GHz frequency bands with RP-SMA connectors; Refer to External Antenna Guide for detailed specifications
XP1-MSI-75	1 Port 75W PoE injector for XA4-240. Requires order of appropriate XS-PWR-XX cord for the country where the AP will be deployed
XP1-MSI-75M	1 Port 75W PoE injector with SNMP and web management for XA4-240. Requires order of appropriate XS-PWR-XX cord for the country where the AP will be deployed
Mounting Brackets	Refer to Accessories Guide for options, part numbers and detailed information

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