HIGH DENSITY ACCESS POINTS

Xirrus High Density Access Points are the only Wi-Fi solutions of their kind featuring the ultimate in scalable performance and flexible upgradability to economically serve today's requirements and grow to meet tomorrow's demand. The industry's only fully modular and software programmable Wi-Fi platforms, Xirrus High Density Access Points scale from 2 to 16 radios to service a broad range of wireless user density and capacity requirements. These High Density AP are ideal for providing robust Wi-Fi connectivity in areas high density usage such as 1:1 classrooms, lecture halls, meeting spaces, auditoriums, libraries, convention centers, stadiums, arenas and more.

Configuration Specifications

XR-2000 Series: 4-slot High-Density Access Point

	XR-2226	XR-2236	XR-2426	XR-2436	XR-2425H
Chassis Size	11"	11"	11"	11"	11.4in x 11.8in x 4.2in
Radio Type	2x2 11ac, 867Mbps	3x3 11ac, 1.3Gbps	2x2 11ac, 867Mbps	3x3 11ac, 1.3Gbps	2x2 11n, 300Mbps
Total Radio Slots	4	4	4	4	4
Installed Radios	2	2	4	4	4
Maximum Wi-Fi Bandwidth	1.73Gbps	2.6Gbps	3.46Gbps	5.2Gbps	1.2Gbps
Dedicated Wi-Fi Threat Sensor	Yes	Yes	Yes	Yes	Yes
Integrated Antennas	4	6	8	12	8 (External)
Maximum Wi-Fi Backhaul	867Mbps	1.3Mbps	2.6Mbps	3.9Gbps	900Mbps
Maximum Associated Users	390	390	780	780	960
Radio Interface	2.5Bbps PCI-Express	2.5Gbps PCI-Express	2.5Gbps PCI-Express	2.5Gbps PCI-Express	2.5Gbps PCI-Express
Gigabit Ethernet Uplink Ports • 802.3ad link aggregation • Broadcast • Link-backup • Load balancing	2	2	2	2	2
Maximum Power Consumption	22.5W	26.1W	30W	37W	30W

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XR-4000 Series: 8-slot High-Density Access Point

	XR-4426	XR-4436	XR-4826	XR-4836
Chassis Size	13"	13"	13"	13"
Radio Type	2x2 11ac, 867Mbps	3x3 11ac, 1.3Gbps	2x2 11ac, 867Mbps	3x3 11ac, 1.3Gbps
Total Radio Slots	8	8	8	8
Installed Radios	4	4	8	8
Maximum Wi-Fi Bandwidth	3.5Gbps	5.2Gbps	5.2Gbps	8.6Gbps
Dedicated Wi-Fi Threat Sensor	Yes	Yes	Yes	Yes
Integrated Antennas	8	12	16	24
Max Wi-Fi Backhaul	2.6Gbps	3.9Gbps	2.6Gbps	3.9Gbps
Maximum Associated Devices	780	780	1560	1560
Radio Interface	2.5Gbps PCI-Express	2.5Gbps PCI-Express	2.5Gbps PCI-Express	2.5Gbps PCI-Express
Gigabit Ethernet Uplink Ports • 802.3ad link aggregation • Broadcast • Link-backup •Load balancing	2	2	2	2
Maximum Power Consumption	33W	38W	45W	50W

XR-6000 Series: 16-slot High-Density Access Point

	XR-6836	XR-7636
Chassis Size	17"	17"
Radio Type	3x3 11ac, 1.3Gbps	3x3 11ac, 1.3Gbps
Total Radio Slots	16	16
Installed Radios	8	16
Maximum Wi-Fi Bandwidth	8.6Gbps	8.6Gbps
Dedicated Wi-Fi Threat Sensor	Yes	Yes
Integrated Antennas	24	48
Max Wi-Fi Backhaul	3.9Gbps	3.9Gbps
Maximum Associated Users	1560	3120
Radio Interface	2.5Gbps PCI-Express	2.5Gbps PCI-Express
Gigabit Ethernet UplinkPorts • 802.3ad link aggregation • Broadcast • Link-backup •Load balancing	4	4
SFP+ 10 Gigabit Modular Expansion Port	1	1
Maximum Power Consumption	70.6W	104W

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Technical Specifications

FEATURE	SPECIFICATIONS	
RF Management	In-band per IAP Spectrum Analysis Dynamic channel configuration Dynamic cell size configuration Monitor radio for threat assessment and mitigation Wired and wireless packet captures (including all 802.11 headers) 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. Ultra Low Power Mode – Maximize wireless channel 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 802.3.u 100BASE-TX , 1000BASE-T, 802.3ab 1000BASE-T IEEE 802.1q – VLAN tagging IEEE 802.1AX – Link aggregation IEEE 802.1d – Spanning tree IEEE 802.1p – Layer 2 traffic prioritization IPv6 Control – Increase wireless device density through control of unnecessary IPv6 traffic on IPv4-only networks. DHCP option 82	
Carrier Applications	Passpoint 2.0 Certification	
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	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	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 Guest Access System
Regulatory Compliance	CE Mark Safety: • UL 60950-1:2003 • EN 60950:2000 • EMI and susceptibility (Class A)	• U.S.:FCC Part 15.107 and 15.109 • Canada: ICES-003 • Japan: VCCI • Europe: EN 55022, EN 55024 • EN 60601-1-2 • EN 301 893 V1.6.1
Environmental Specifications	Operating Temperature: 0-55C, 0-90% humidity, non-condensing Operating Temperature for XR-2425H: -40C to +65C, 0-90% humidity, non-condensing, IP65 rated	

* All channel selections are based upon country code selections

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*	UNI I – Non-DFS channels 36 40 44 48 UNI I DFS channels 52 56 60 64	UNI II DFS channels 100 104 108 112 116 120 124 128 132 136 140 UNI III 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	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 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

Receive Sensitivity

RATE	2.4GHZ RX Sensitivity (DBM)	5GHZ RX Sensitivity (DBM)
802.11a		
6Mbps		-92
9Mbps		-92
12Mbps		-91
18Mbps		-90
24Mbps		-87
36Mbps		-83
48Mbps		-79
54Mbps		-78
802.11b		
1Mbps	-91	
2Mbps	-91	
5.5Mbps	-93	
11Mbps	-93	
802.11g		
6Mbps	-93	
9Mbps	-93	
12Mbps	-92	
18Mbps	-91	
24Mbps	-90	
36Mbps	-88	
48Mbps	-83	
54Mbps	-80	
802.11n HT20		
MCS 0	-93	-93
MCS 1	-93	-90
MCS 2	-92	-88
MCS 3	-88	-85
MCS 4	-86	-81
MCS 5	-82	-77
MCS 6	-80	-76
MCS 7	-79	-75
MCS 8	-95	-93
MCS 9	-92	-90
MCS 10	-89	-88
MCS 11	-87	-85
MCS 12	-83	-81
MCS 13	-79	-77
MCS 14	-78	-76
MCS 15	-76	-75
MCS 16	-92	-93
MCS 17	-91	-90
MCS 18	-89	-88
MCS 19	-86	-85
MCS 20	-82	-81
MCS 21	-78	-77
MCS 22	-77	-76
MCS 23	-76	-75

RATE	2.4GHZ RX Sensitivity (DBM)	5GHZ RX Sensitivity (DBM)
802.11n HT40		
MCS 0	-93	-91
MCS 1	-92	-88
MCS 2	-90	-86
MCS 3	-87	-83
MCS 4	-84	-79
MCS 5	-80	-75
MCS 6	-78	-74
MCS 7	-77	-73
MCS 8	-92	-90
MCS 9	-89	-87
MCS 10	-87	-85
MCS 11	-84	-82
MCS 12	-81	-78
MCS 13	-77	-74
MCS 14	-75	-73
MCS 15	-74	-72
MCS 16	-91	-90
MCS 17	-88	-87
MCS 18	-86	-85
MCS 19	-83	-82
MCS 20	-79	-78
MCS 21	-75	-74
MCS 22	-74	-73
MCS 23	-73	-72
802.11ac VHT20		
MCS 0		-82
MCS 1		-79
MCS 2		-77
MCS 3		-74
MCS 4		-70
MCS 5		-66
MCS 6		-65
MCS 7		-64
MCS 8		-59
MCS 9		-57
802.11ac VHT40		
MCS 0		-88
MCS 1		-85
MCS 2		-83
MCS 3		-80
MCS 4		-76
MCS 5		-72
MCS 6		-71
MCS 7		-69
MCS 8		-67
MCS 9		-66
802.11ac VHT80		
MCS 0		-86
MCS 1		-83
MCS 2		-81
MCS 3		-78
MCS 4		-74
MCS 5		-70
MCS 6		-69
MCS 7		-68
MCS 8		-66
MCS 9		-64

HIGH DENSITY ACCESS POINTS

PART NUMBER	DESCRIPTION
Configured Models	
XR-2226	XR High Density Access Point consisting of 4 slot chassis with integrated controller, two 867Mbps 802.11ac modular radios, and ArrayOS operating system
XR-2236	XR High Density Access Point consisting of 4 slot chassis with integrated controller, two 1.3Gbps 802.11ac modular radios, and ArrayOS operating system
XR-2425H	Hardened XR Wireless Acess Point with four 300Mbps 802.11n radios, integrated controller and ArrayOS Operating System
XR-2426	XR High Density Access Point consisting of 4 slot chassis with integrated controller, four 867Mbps 802.11ac modular radios, and ArrayOS operating system
XR-2436	XR High Density Access Point consisting of 4 slot chassis with integrated controller, four 1.3Gbps 802.11ac modular radios, and ArrayOS operating system
XR-4426	XR High Density Access Point consisting of 8 slot chassis with integrated controller, four 867Mbps 802.11ac modular radios, and ArrayOS operating system
XR-4436	XR High Density Access Point consisting of 8 slot chassis with integrated controller, four 1.3Gbps 802.11ac modular radios, and ArrayOS operating system
XR-4826	XR High Density Access Point consisting of 8 slot chassis with integrated controller, eight 867Mbps 802.11ac modular radios, and ArrayOS operating system
XR-4836	XR High Density Access Point consisting of 8 slot chassis with integrated controller, eight 1.3Gbps 802.11ac modular radios, and ArrayOS operating system
XR-6836	XR High Density Access Point consisting of 16 slot chassis with integrated controller, eight 1.3Gbps 802.11ac modular radios, and ArrayOS operating system
XR-7636	XR High Density Access Point consisting of 16 slot chassis with integrated controller, sixteen 1.3Gbps 802.11ac modular radios, and ArrayOS operating system
Software Licenses	
AOS-APPCON	Application Control license enabling Deep Packet Inspection (DPI) for application visibility and control on 1 modular Access Point

About Xirrus

To organizations that depend on wireless access to transform their business, Xirrus is the wireless network solution provider that provides the world's most powerful, scalable, and trusted solutions. Through product invention and system design, commitment to customer success, and the industry's best price performance, Xirrus gives you confidence that your wireless network performs under even the most demanding circumstances. Headquartered in Thousand Oaks, CA, Xirrus is a privately held company and designs and manufactures its family of products.