

Xirrus Wireless Array

XR-2000 Series

Configurations: XR-2420 and XR-2430

DATASHEET

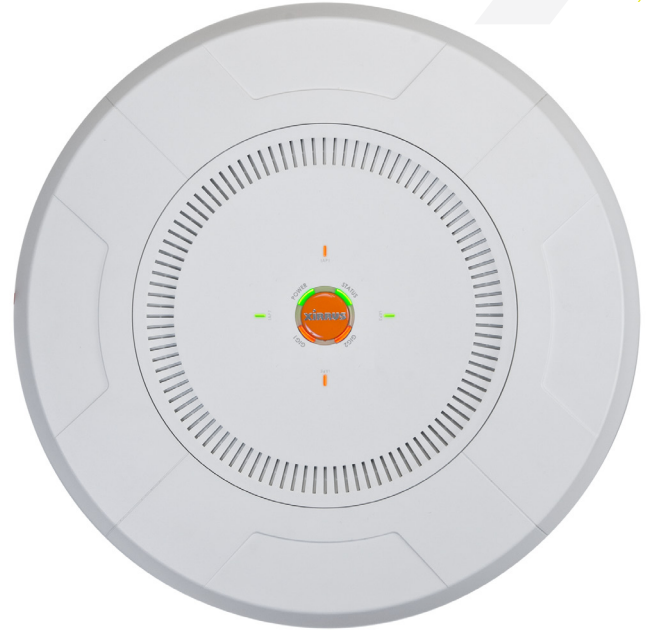
Introducing the Xirrus XR-2000 Series

The Xirrus XR-2000 Series Wireless Array is the first modular Wi-Fi product of its kind featuring upgradability, high scalability, high performance and integrated security to economically serve today's requirements without sacrificing for tomorrow's demand.

The Xirrus XR-2000 Wireless Array provides superior price/performance value by integrating the unmatched combination of four multi-state (2.4GHz and 5GHz) modular APs with high gain directional antennas, wireless controller, multi-gigabit switch, firewall, threat sensor, and spectrum analyzer into a single modular chassis. The XR-2000 is designed to meet a wide variety of wireless networks requirements, including ubiquitous wireless coverage, low to medium user density, and high reliability.

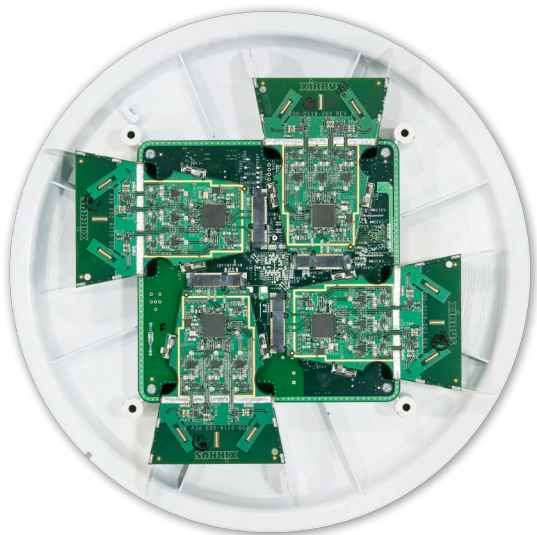
The Xirrus XR-2000 Series 4-slot chassis is the industry's only multi-state radio platform supporting multiple configurations with post-installation upgrade options. The Xirrus XR-2000 Series combines unmatched flexibility in wireless standards with the ability to scale a network to meet increasing demands without adding additional devices.

The XR-2000 utilizes the same multi-state modular APs supported in all Xirrus XR Wireless Arrays, and is available in 300Mbps or 450Mbps 802.11n versions.



XR-2000 SERIES 4-SLOT CHASSIS

Shown configured with four multi-state, pluggable radio modules



At A Glance

- 4 multi-state modular access points (2.4GHz and 5GHz)
- Supports 300Mbps or 450Mbps 802.11n versions
- Supports up to 960 users
- Field upgradable to new wireless technologies (802.11ac, 802.11ad)

NSP Architecture for Amazing Performance

The architecture of the Xirrus XR-2000 Array is based upon a Network Services Processor (NSP) that delivers uncompromised performance to all associated users. The design allows for hardware based encryption, compression, acceleration, as well as reliable quality of service with uptimes and availability optimized for 802.11n performance and scalability.

Unmatched Upgradability

The Xirrus XR-2000 radio upgradable wireless platform allows a network to upgrade technologies without full replacement of the Array. Modular APs can be purchased in 300Mbps or 450Mbps versions, and every modular AP is capable of operating at 2.4GHz and 5GHz. The modular XR platform ensures support for new wireless technologies and is the first 802.11ac/11ad-ready product available.

Key Benefits

Flexible

The XR-2000 adds greater deployment flexibility for Xirrus XR-Series Wireless Array network designs. Engineers have greater flexibility in Array placement to maximize coverage and minimize equipment costs.

Scalable

Maintain a high level of performance for mission-critical applications and support the ability to handle unpredictable user growth throughout your wireless network. Scale capacity by increasing the network traffic throughput without installing additional devices.

Secure

Eliminate potential gaps in security infrastructure with the XR-2000 series virtualized firewall, threat sensor and spectrum analyzer providing comprehensive security without the need for additional equipment.

Economical

Deploy 50%+ less equipment than competitive solutions and reduce the effort to manage and maintain your wireless network. Realize savings with the XR-2000 multi-radio design and directional antennas that minimizes the number of devices needed to be deployed resulting in savings in equipment, cables, switch ports, installation time, maintenance and power consumption.

Configuration Specifications

	XR-2420	XR-2430
Chassis Size	11"	11"
AP Slots	4	4
Populated 802.11n Radios	4	4
Maximum Wi-Fi Bandwidth	1.2Gbps	1.8Gbps
Dedicated Wi-Fi Threat Sensor	Yes	Yes
Integrated Antennas	8	12
Maximum Wi-Fi Backhaul	900Mbps	1.35Gbps
Integrated Switch Ports	4	4
Gigabit Ethernet Uplink Ports	1	1
Maximum Associated Users	960	960
Radio Interface	2.5Gbps PCI-Express	2.5Gbps PCI-Express
Maximum Power Consumption	25W	29W

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 Packet Captures Radio assurance for radio self test and healing RF monitor
Wireless Protocols	IEEE 802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n
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



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FEATURE	SPECIFICATIONS	
Channel Support 2.4GHz (channels available based on country code selected)	1 2 3 4 5 6 7 8 9 10 11 12 13 14	
Channel Support 5GHz (channels available based on country code selected)	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)	
Management	SNMP v1, v2c, v3 RFC 854 Telnet RFC 1155 Management Information for TCP/IP Based Internets RFC 1156 MIB RFC 1157 SNMP RFC 1213 SNMP MIB II RFC 1350 TFTP RFC 1643 Ethernet MIB RFC 2030 Simple Network Time Protocol SNTP RFC 2616 HTTP 1.1 RFC 3636 Definitions of Managed Objects for IEEE Xirrus Private MIBs	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 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 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
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	
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 modular AP	
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 Pass through RFC 3748 Extensible Authentication Protocol Web Page Authentication <ul style="list-style-type: none"> • WPR, Landing Page, Redirect • Support for Internal WPR, Landing Page and Authentication • Support for External WPR, Landing Page and Authentication



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FEATURE	SPECIFICATIONS	
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 Europe: EN 55022, EN 55024
Physical Specifications	Dimensions (no connectors): 2.75 x 11.25 x 11.25 in. Weight: 2.2lb	Does not include mounting bracket
Environmental Specifications	Operating Temperature: 0 to +55C, 0-90% humidity, non-condensing	

Ordering Information

PART NUMBER	DESCRIPTION
Hardware Components	
XC-2000	XR Wireless Array 4-slot chassis
XI-N300	300Mbps 802.11a/b/g/n Modular Access Point
XI-N450	450Mbps 802.11a/b/g/n Modular Access Point
Configured Models	
XR-2420H	XR-2000 Chassis with 4 radios that support 802.11a/b/g/n at 300Mbps per modular AP
XR-2430H	XR-2000 Chassis with 4 radios that support 802.11a/b/g/n at 450Mbps per modular AP
Software Licenses	
AOS-N300	License per modular AP to enable operation at 300Mbps on XR-2000 Chassis
AOS-N450	License per modular AP to enable operation at 450Mbps on XR-2000 Chassis
AOS-RXM-ALL	License to enable RPM (Performance), RSM (Security) and RAM (Analysis) feature options

Support & Maintenance

Xirrus is committed to the success of our customers and provides warranties and support options to best fit your needs. Xirrus XR Series Wireless Arrays ship from the factory with a 5-year hardware warranty. For further information on the Xirrus hardware warranties, software support and premium support offerings visit:

<http://www.xirrus.com/Support/Warranty-Support>

About Xirrus

To organizations who 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 in the USA.



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