Xirrus XR-520 Wireless Access Point

DATASHEET

Introducing the Xirrus XR-520

The XR-520 Access Point represents a new class of low cost, zero touch AP within the Xirrus wireless portfolio. With a powerful integrated controller, application-level intelligence, automated provisioning, and cloud management (optional), the XR-520 delivers a flexible complement to Xirrus' line of modular XR Arrays.

The XR-520 is the ideal solution for providing robust wireless connectivity in areas of low-to-medium user density. Example use cases include hotel rooms, dormitories, hospital rooms, health clinics, office spaces, retail areas and similar.

At A Glance

- Dual radio 300Mbps (2x2 MIMO) 802.11n AP
- One software programmable radio enabling dual 5GHz operation
- Integrated omni-directional, internal antennas
- Supports up to 240 users
- Runs Xirrus' industry leading, distributed controller ArrayOS
- On-premise and cloud-based management system options



Key Benefits

Application Control

Firewall, apply QoS, and manage 900+ application types under 15 categories using Layer 7 Deep Packet Inspection (DPI) and other contextual application detection techniques.

2.4GHz Optimization

Extended radio power control range enables reduced 2.4GHz cell size coverage to optimize channel reuse in dense scenarios and improve user capacity. Honeypot Mode helps increase available wireless device density through management of spurious association traffic.

5GHz Optimization

With its 2.4GHz and 5GHz radios (one software programmable to either), the XR-520 will help you easily make the transition to a 5GHz centric network, when you are ready.

Bonjour Director Support

Extend Apple Bonjour protocols across Layer 3 boundaries for simple setup and configuration of commonly used shared Apple services such as Airplay and Airprint.

Bring Your Own Device

Integration with Xirrus Access Manager (XAM) allows guests and employees alike to use non-corporate configured wireless devices while the XR-520 enforces appropriate access policies.

Value Driven

For all of its advanced features, the XR-520 is still very cost competitive.

Discreet Aesthetics

At just 7.7" in diameter, the XR-520 is designed to be compact and aesthetically pleasing.



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Configuration Specifications

	XR-520				
Chassis Size	7.7″				
Total Radios	2				
Radio Type	One 300Mbps Software Programmable (2.4GHz or 5GHz) and one 5GHz				
Maximum Wi-Fi Bandwidth	600Mbps				
Number of Integrated Antennas	4				
Max Wi-Fi Backhaul	300Mbps				
Gigabit Ethernet Uplink Ports	1				
Maximum Associated Users	240 (120 per radio)				
Radio Interface	PCI				
Maximum Power Consumption (absolute max when running both radios at continuous transmit)	12.5W				

Technical Specifications

FEATURE	SPECIFICATIONS	SPECIFICATIONS				
CPU	300MHz Cavium CN5020 Processor with 2 MIPS-64 C	300MHz Cavium CN5020 Processor with 2 MIPS-64 Cores				
Installed Memory	512MB					
RF Management	Radio assurance for radio self test and healing RF monitor 2.4 & 5.0GHz Honeypot Control – Increase available 2 2.4 & 5.0GHz association traffic	Dynamic channel configuration Dynamic cell size configuration Wired and wireless packet captures (including 802.11 headers) Radio assurance for radio self test and healing RF monitor 2.4 & 5.0GHz Honeypot Control – Increase available 2.4 and 5GHz wireless device density through management of spurious				
Wireless Protocols	IEEE 802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 8	IEEE 802.11a, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n				
Wired Protocols	IEEE 802.1q – VLAN Tagging IEEE 802.1d – Spanning Tree IEEE 802.1p – Layer 2 Traffic Prioritization	IEEE 802.1d – Spanning Tree				
Carrier Applications	Passpoint 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-bit SSL v3.0 and TLS v1.0: RC4 128-bit and RDA 1024 and 2048-bit					



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Xirrus XR-520 Wireless Array

FEATURE	SPECIFICATIONS					
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 5216 EAP-TLS	RFC 5281 EAP-TTLS RFC 2284 EAP-GTC RFC 4186 EAP-SIM RFC 4187 EAP-AKA RFC 3748 Leap Pass through 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				
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 (WxDxH): 1.96 x 7.70 x 7.70	Weight: 1.1lbs				
Environmental Specifications	Operating Temperature: 0-40C, 0-90% humidity, non-condensing, altitude 0–2000m Non-Operating Temperature: 0-60C, 0-95% humidity, non-condensing					
Channel Support 2.4GHz Exact channels available will be based on country code selected)	1 2 3 4 5 6 7 8 9 10 11 12 13 14					
Channel Support 5GHz Exact channels available will be based on country code selected)	UNI I – Non-DFS Channels 36 40 44 48	UNI III – Non-DFS Channels 149 153 157 161 165				
Management Interfaces	Command Line Interface (CLI) Web Interface (HTTP and HTTPS)	Xirrus Management System (XMS)				
Management Protocols and Standards	SNMP v1 SNMPv2c as per RFCs 1901, 2580 SNMPv3 as per RFC 3410-3415	RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions RFC 2819 Remote Network Monitoring Management				
	RFC 854 Telnet RFC 1155 Management Information for TCP/IP Based	Information Base				
	Internets	RFC 2863 The Interface Group MIB RFC 3164 BSD Syslog Protocol				
	RFC 1156 MIB RFC 1157 SNMP	RFC 3414 User-based Security Model (USM) for version 3 the Simple Network Management Protocol (SNMPv3)				
	RFC 1212 Concise MIB Definitions	RFC 3416 Version 2 of the Protocol Operations for the Simple Network Management Protocol (SNMP)				
	RFC 1213 SNMP MIB II RFC 1215 A Convention for Defining Traps for use with the SNMP	RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)				
	RFC 1350 TFTP	RFC 3418 Management Information Base (MIB) for the				
	RFC 1643 Ethernet MIB	Simple Network Management Protocol (SNMP) RFC 3636 Definitions of Managed Objects for IEEE Xirrus				
	RFC 2030 Simple Network Time Protocol SNTP	Private MIBs				
	RFC 2578 Structure of Management Information Version 2 (SMIv2)	Integration with Splunk for accurate search and analysis of intra-organizational IT events				
	RFC 2579 Textual Conventions for SMIv2	Netflow Export v9 and IPFIX compatibility allows for IP				
	RFC 2616 HTTP 1.1	traffic statistics collection				
	RFC 2665 Definitions of Managed Objects for the Ethernet Like Interface Types					



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XR Receive Sensitivity

802.11b 802.11g		2.11g	802.11a		802.11n HT20 (20MHz)			802.11n HT40 (40MHz)				
Data	Rx	Data	Rx	Data	Rx	MCS	MCS	Rx Sensiti	vity (dBm)	MCS	Rx Sensiti	vity (dBm)
Rate (Mbps)	Sensitivity (dBm)	Rate (Mbps)	Sensitivity (dBm)	Rate (Mbps)	Sensitivity (dBm)	Index	2.4GHz	5GHz	Index	2.4GHz	5GHz	
1	-94	6	-95	6	-92	0	-95	-93	0	-93	-92	
2.2	-92	9	-95	9	-92	1	-94	-90	1	-92	-91	
5.5	-91	12	-95	12	-92	2	-92	-88	2	-90	-88	
11	-91	18	-93	18	-86	3	-88	-84	3	-87	-85	
		24	-90	24	-85	4	-86	-81	4	-84	-79	
		36	-86	36	-82	5	-82	-77	5	-80	-75	
		48	-83	48	-78	6	-80	-75	6	-78	-73	
		54	-80	54	-77	7	-79	-73	7	-77	-72	
						8	-95	-90	8	-92	-88	
						9	-92	-87	9	-89	-85	
						10	-89	-84	10	-87	-83	
						11	-87	-82	11	-84	-80	
						12	-83	-78	12	-81	-77	
						13	-79	-74	13	-77	-72	
						14	-78	-72	14	-75	-71	
						15	-76	-71	15	-74	-70	

Ordering Information

PART NUMBER	DESCRIPTION				
Configured Models					
XR-520	XR Wireless Array with 2 300Mbps 802.11n radios, integrated controller, and ArrayOS Operating System				
Software Licenses					
AOS-APPCON	Application Control license enabling Deep Packet Inspection (DPI) for application visibility and control				
Accessories					
Power Injector XP1-MSI-20	Optional 20 Watt power injector for use with XR-520. Note the XR-520 is 802.3af PoE compatible.				
If you want to hang your XR-520 from th	e ceiling				
XE-500-MOUNT	Accessory kit for ceiling mount				
If you want to mount your XR-520 on the	wall				
XE-500-WALL	Accessory kit for wall mount				

Support & Maintenance

Xirrus is committed to the success of our customers and provides warranties and support options to best fit your needs. Xirrus XR-520 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/

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. Xirrus is a privately held company headquartered in Thousand Oaks, CA.



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