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.





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					
CPU	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 2.4 & 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, 802.11h, 802.11i, 802.11j, 802.11n					
Wired Protocols	IEEE 802.3 10-BASE-T, IEEE 802.3u 100BASE-TX, 1000BASE-T, IEEE 802.3ab 1000BASE-T IEEE 802.1q – VLAN Tagging 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					
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	On an IMED TRID MIC. DC4 40 104 and 100 bit CCI a	v3.0 and TLS v1.0: RC4 128-bit and RDA 1024 and 2048-bit				





XR Receive Sensitivity

802.11b 802.11g		802.11a 8		802	.11n HT20 (20I	MHz)	802.11n HT40 (40MHz)					
Data	Rx	Data	Rx	Data	Rx	itivity Index	Rx Sensiti	vity (dBm)	MCS	Rx Sensiti	vity (dBm)	
Rate (Mbps)	Sensitivity (dBm)	Rate (Mbps)	Sensitivity (dBm)	Rate (Mbps)	Sensitivity (dBm)				2.4GHz	5GHz	Index	2.4GHz
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 the	ceiling				
XE-500-MOUNT	Accessory kit for ceiling mount				
If you want to hang your XR-520 from righ	t angle arm projecting from the wall				
XE-500-WALL	Accessory kit for wall mount				
If you want to mount your XR-520 on an el	lectrical box on the wall (the top face of the XE-520 would be parallel with the wall)				
XE-500-MOUNT + XE-500-JBOX	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 with a Limited Lifetime 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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