Xirrus XR-320
Wall-mounted 802.11ac AP With Gigabit PoE Switch

Introducing the Xirrus XR-320

The XR-320 is a multi-service in-wall Gigabit wireless access point with 4-port Gigabit wired switch. This AP is simple to deploy over existing in-wall cabling and ideal for delivering high bandwidth multi-device wireless connectivity and IP services in hotel rooms, dormitories, offices, and similar locations. The XR-320 is easy to deploy and simple to manage from anywhere with Xirrus Management System-Cloud (XMS-Cloud). This highly flexible AP with integrated wired switch is purpose built for clean in-room aesthetics.

The XR-320 features integrated controller with dual 2x2 radios that can concurrently operate in 2.4GHz and 5GHz bands. The XR-320 supports 802.11ac standards and backward compatible with legacy 802.11a/b/g/n.

Key Benefits

Simple-to-Deploy
The XR-320 is designed to leverage existing in-wall wiring with the option to connect with either RJ-45 or punch down blocks. This intelligent AP/switch is designed to reduce the burden on IT with features like plug and play zero-touch deployment and remote management.

Flexibility
The XR-320 is a highly flexible access device designed to provide wired and/or wireless in-room connectivity. This AP/switch can be managed from anywhere, anytime through the intuitive XMS-Cloud management platform. This device supports multiple SSIDs, and concurrent 2.4GHz and 5GHz client devices. It can be powered by PoE, PoE+ or with 48V DC input for deployment flexibility.

Lower Cost of Deployment
Using existing in-wall Cat 5e/6 cabling this versatile product can deliver instant Wi-Fi, connectivity to multiple wired devices and pass through access for legacy devices like POTS. It eliminates the need to pull new cable to the ceiling for Wi-Fi AP deployment or new in-wall cables for additional wired devices.

High Speed Connectivity
This device supports multiple wired and wireless IP devices like laptops, phones, tablets, smartphones, IP enabled refrigerators, safety box, intelligent thermostats and smart TVs. The XR-320 supports Gigabit speed wireless and wired connectivity for high bandwidth in-room stream video and audio services.

AT A GLANCE

- Dual radio 2x2 802.11ac AP
- 1.1Gbps total Wi-Fi bandwidth
- Integrated Controller
- Supports 802.11a/b/g/n/ac
- 4 GbE ports (including 1 PoE downlink)
- Powered by PoE, PoE+ or 48V DC
- Cloud-based management

Discreet Aesthetics
At just 150mm x 86mm x 26.8mm, the XR-320 is designed to be compact and fit single US and UK gang wiring box. The surface is paintable to match the aesthetic needs of the room.

Simple Integrated Guest Access
With integrated Guest Access Portal, guests can self provision access or be administered by a guest ambassador. The Guest Access Portal can be highly customized for branding and login credential can be sent over SMS or by email. Guest can also login with their social media credentials.

Highly Customized In-room Coverage
The XR-320 supports advanced RF optimization with multi-channel auto cell to reduce interference and automatically control coverage area. APs in adjacent dwelling units or hotel rooms can recognize the various channels being used and automatically optimize for best performance.

Configuration Specifications

XR-320

Wireless Specifications

Total Radios	2 (1-802.11b/g/n, 802.11a/n/ac)
Radio Type	2x2 MIMO
Maximum Wi-Fi Bandwith	1.1Gbps
Controller	Integrated controller with distributed architecture
Number of Integrated Antennas	4 integrated antennas
Maximum Associated Devices	256
Antenna Gain	>= 2dBi (2.4GHz and 5GHz)

Physical Specifications

Dimensions	26.8mm(H) X 86mm (W) X 150mm (L)
Environmental operating temperature	0 degree C to + 45 degree C (32 degree F to 113 degree F)
Operating Humidity	5% to 95% non-condensing

Wired Specifications

Interfaces	1 GbE PoE/PoE+ uplink with RJ-45 or 110 punch down block 4 GbE (including 1 PoE output with PoE+ or DC input) 1 pass through port 48 V DC connector Reset button
Input Power	802.3af when no PoE output port is required 802.3at PoE+ compatible for PoE output port 48V DC (at least 0.65A)

Technical Specifications

FEATURE	SPECIFICATIONS	
RF Management	Dynamic channel configuration Dynamic cell size configuration RF monitor Ultra Low Power Mode – Maximize wireless channel re-use and increase wireless device density through tight power controls	
Wireless Protocols	IEEE 802.11a, 802.11ac, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11k, 802.11n, 802.11ac	
Uplink 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 LAN ports can be configured as Access port or Trunk Port	
RFC Support	RFC 768 UDP RFC 791 IP 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
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	

RF specification (±2dB)

Min. Receive Sensitivity (per chain) ± 2 dB		
	2.4GHz	**5GHz**
11 b (1Mbps)	-95	-
11 b (11Mbps)	-87	-
11 g (6Mbps)	-91	-
11 g (54Mbps)	-74	-
11 a (6Mbps)	-	-90
11 a (54Mbps)	-	-72
HT20 (MSC 0)	-91	-90
HT20 (MSC 7)	-70	-70

FEATURES	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
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 EN 60601-1-2 EN 301 893 V1.6.1
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)	UNII−1 − Non DFS Channels 36 40 44 48 UNII−2A* − DFS Channels 52 56 60 64	UNII−2C* − DFS Channels 100 104 108 112 116 120 124 128 132 136 140 UNII-3 − Non DFS Channels 149 153 157 161 165
Management Interfaces	Xirrus Management System (XMS) cloud	Command Line Interface (CLI) (SSH) for troubleshooting
Management Protocols & Standards	RFC 1350 TFTP RFC 2030 Simple Network Time Protocol SNTP RFC 2578 Structure of Management Information Version 2 (SMIv2)	RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP) 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

pending FCC approval

Ordering Information

PART NUMBER	DESCRIPTION
XR-320	XR AP for wall plate installations with one 2.4GHz & one 5GHz radio

XMS Cloud Licenses

PART NUMBER	DESCRIPTION
XMS-9500-CL-1	XMS (Xirrus Management System) Cloud 1 year license for managing 1 radio. Order quantity based on total number of radios to be managed. Includes 1 year Premium Support for the XMS Cloud instance and ArrayOS on the managed fixed or modular AP.
XMS-9500-CL-3	XMS (Xirrus Management System) Cloud 3 year license for managing 1 radio. Order quantity based on total number of radios to be managed. Includes 3 year Premium Support for the XMS Cloud instance and ArrayOS on the managed fixed or modular AP.
XMS-9500-CL-5	XMS (Xirrus Management System) Cloud 5 year license for managing 1 radio. Order quantity based on total number of radios to be managed. Includes 5 year Premium Support for the XMS Cloud instance and ArrayOS on the managed fixed or modular AP.

Support & Maintenance

Xirrus is committed to the success of our customers and provides warranties and support options to best fit your needs. Xirrus XR-320 ship from the factory 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.

For more information about Xirrus, Inc., visit I www.xirrus.com I

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