



## WALL MOUNT ACCESS POINT

This high performance Gigabit Wi-Fi wall mount access point (AP)/switch delivers multi-device wireless and wired connectivity for high bandwidth IP services in hotel rooms, hospital rooms, dormitories, offices, and similar locations. The XR-320 AP is fast to deploy over existing in-wall cabling and simple to manage from anywhere with Xirrus Management System-Cloud (XMS-Cloud) or on-premise Xirrus Management System-Enterprise. This highly flexible AP with integrated Gigabit wired switch is purpose built for clean in-room aesthetics.

### CONFIGURATION SPECIFICATIONS

	XR-320
Chassis Dimensions	26.8mm(H) X 86mm (W) X 150mm (L)
Supported Standards	802.11a/b/g/n/ac
Total Number of Radios	2
Radio Type	2x2 11ac (Wave1), 867Mbps
MIMO Technology	SU-MIMO
Maximum Wi-Fi Bandwidth	1.1Gbps
Integrated Antennas	4
Maximum Associated Devices	256
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 , 48V DC connector , Reset button
Max SSIDs	8
Max VLANs	52
Input Power	802.3af when no PoE output is required 802.3at PoE+ compatible for PoE output port 48V DC (at least 0.65A)
Weight	1.0lbs

# WALL MOUNT ACCESS POINT

## TECHNICAL SPECIFICATIONS

Features	Specifications				
RF Management	Dynamic channel configuration Dynamic cell size configuration RF monitor 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				
Wired Protocols	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, 1000BASE-T, 802.3ab 1000BASE-T IEEE 802.1q – VLAN tagging IEEE 802.1d – Spanning tree IEEE 802.11r - Fast Transition Roaming				
RFC Support	RFC 768 UDP RFC 791 IP RFC 792 ICMP RFC 793 TCP				
Security	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 Per port RADIUS MAC authentication and accounting				
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	<ul style="list-style-type: none"> <li>• IEEE 802.1x</li> <li>• RFC 2716 PPP EAP-TLS</li> <li>• RFC 2865 RADIUS Authentication</li> <li>• RFC 2866 RADIUS Accounting</li> <li>• RFC 2867 Tunnel Accounting</li> <li>• RFC 2869 RADIUS Extensions</li> <li>• RFC 3576 Dynamic Authorizations extensions to RADIUS</li> <li>• RFC 3579 RADIUS Support for EAP</li> <li>• RFC 3748 EAP-PEAP</li> <li>• RFC 5216 EAP-TLS</li> <li>• RFC 5281 EAP-TTLS</li> <li>• RFC 2284 EAP-GTC</li> <li>• RFC 4186 EAP-SIM</li> <li>• RFC 3748 Leap Passthrough</li> <li>• RFC 3748 Extensible Authentication Protocol</li> <li>• Support for External WPR, Landing Page and Authentication</li> <li>• Support for EasyPass Access Services – Guest, Onboarding, Voucher and Personal Wi-Fi</li> </ul>				
Regulatory Compliance	<table border="0"> <tr> <td>EMC, Safety and Wireless</td> <td>Safety</td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• FCC CFR 47 Part 15, Class B</li> <li>• ICES-003 Class B</li> <li>• FCC Subpart C 15.247</li> <li>• FCC Subpart E 15.407</li> <li>• RSS-247</li> <li>• EN 301 893</li> <li>• EN 300 328</li> <li>• EN 301 489 1 &amp; 17</li> <li>• EN 62311</li> <li>• EN 55022 (CISPR 22)</li> <li>• AS/NZS4268 + CISPR22</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• IEC 60950-1</li> <li>• EN 60950-1</li> <li>• UL 60950-1</li> <li>• CSA 22.2 No.60950-1-03</li> <li>• AS/NZS 60950.1</li> <li>• Air handling space (UL 2043)</li> </ul> </td> </tr> </table>	EMC, Safety and Wireless	Safety	<ul style="list-style-type: none"> <li>• FCC CFR 47 Part 15, Class B</li> <li>• ICES-003 Class B</li> <li>• FCC Subpart C 15.247</li> <li>• FCC Subpart E 15.407</li> <li>• RSS-247</li> <li>• EN 301 893</li> <li>• EN 300 328</li> <li>• EN 301 489 1 &amp; 17</li> <li>• EN 62311</li> <li>• EN 55022 (CISPR 22)</li> <li>• AS/NZS4268 + CISPR22</li> </ul>	<ul style="list-style-type: none"> <li>• IEC 60950-1</li> <li>• EN 60950-1</li> <li>• UL 60950-1</li> <li>• CSA 22.2 No.60950-1-03</li> <li>• AS/NZS 60950.1</li> <li>• Air handling space (UL 2043)</li> </ul>
EMC, Safety and Wireless	Safety				
<ul style="list-style-type: none"> <li>• FCC CFR 47 Part 15, Class B</li> <li>• ICES-003 Class B</li> <li>• FCC Subpart C 15.247</li> <li>• FCC Subpart E 15.407</li> <li>• RSS-247</li> <li>• EN 301 893</li> <li>• EN 300 328</li> <li>• EN 301 489 1 &amp; 17</li> <li>• EN 62311</li> <li>• EN 55022 (CISPR 22)</li> <li>• AS/NZS4268 + CISPR22</li> </ul>	<ul style="list-style-type: none"> <li>• IEC 60950-1</li> <li>• EN 60950-1</li> <li>• UL 60950-1</li> <li>• CSA 22.2 No.60950-1-03</li> <li>• AS/NZS 60950.1</li> <li>• Air handling space (UL 2043)</li> </ul>				
Environmental Specifications	Operating Temperature: 0-50°C, 5-90% humidity, non-condensing Storage Temperature: -40°C to 70°C				
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 (Channel selections are based upon country code selections)	<table border="0"> <tr> <td>U-NII-1 – Non-DFS channels 36 40 44 48 U-NII-2A DFS channels* 52 56 60 64</td> <td>U-NII-2C DFS channels* 100 104 108 112 116 120 124 128 132 136 140 144 U-NII-3 Non-DFS channels 149 153 157 161 165</td> </tr> </table>	U-NII-1 – Non-DFS channels 36 40 44 48 U-NII-2A DFS channels* 52 56 60 64	U-NII-2C DFS channels* 100 104 108 112 116 120 124 128 132 136 140 144 U-NII-3 Non-DFS channels 149 153 157 161 165		
U-NII-1 – Non-DFS channels 36 40 44 48 U-NII-2A DFS channels* 52 56 60 64	U-NII-2C DFS channels* 100 104 108 112 116 120 124 128 132 136 140 144 U-NII-3 Non-DFS channels 149 153 157 161 165				

\* DFS channels will be available upon regulatory certification.

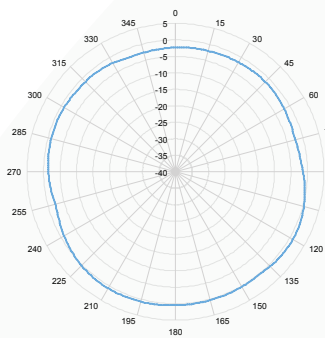
# WALL MOUNT ACCESS POINT

## TECHNICAL SPECIFICATIONS

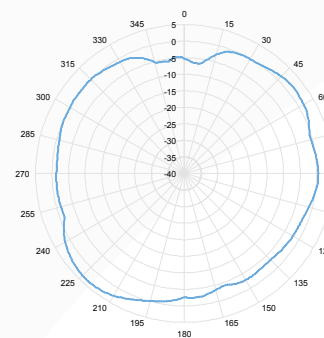
Features	Specifications
Management Interfaces	Command line interface (for troubleshooting only) Xirrus Management System (XMS) <ul style="list-style-type: none"> <li>• XMS-Cloud</li> <li>• XMS-Enterprise</li> </ul>
Management	<ul style="list-style-type: none"> <li>• RFC 2578 Structure of Management Information Version 2 (SMIv2)</li> <li>• RFC 2579 Textual Conventions for SMIv2</li> <li>• RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)</li> <li>• Integration with Splunk for accurate search and analysis of intra-organizational IT events</li> <li>• Netflow Export v9 and IPFIX compatibility allows for IP traffic statistics collection</li> </ul>

## ANTENNA PATTERN

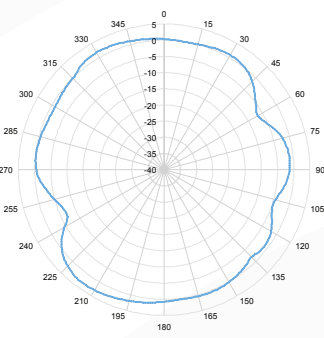
### RF COVERAGE ANTENNA PATTERN FOR XR-320\*



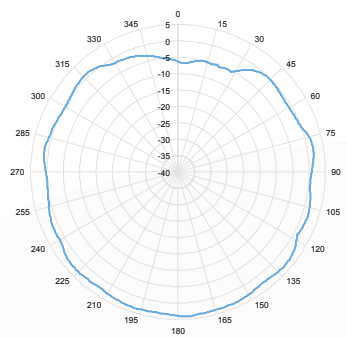
2.4 GHz Azimuth



2.4 GHz Elevation



5 GHz Azimuth



5 GHz Elevation

## RECEIVE SENSITIVITY\*\*

2.4 GHz	XR-320 (dBm)
802.11b	
1 Mbps	-95
11Mbps	-91
802.11g	
6 Mbps	-93
54 Mbps	-76
802.11n HT20	
MSC0	-93
MSC7	-72
802.11n HT40	
MSC0	-90
MSC7	-70

5 GHz	XR-320 (dBm)
802.11a	
6 Mbps	-94
54 Mbps	-76
802.11n HT20	
MSC0	-93
MSC7	-73
802.11n HT40	
MSC0	-90
MSC7	-70
802.11ac VHT20	
MSC0	-93
MSC9	-66

5 GHz	XR-320 (dBm)
802.11ac VHT40	
MSC0	-90
MSC9	-63
802.11ac VHT80	
MSC0	-87
MSC9	-60

\* Single radio antenna pattern

\*\* Single radio chain



# WALL MOUNT ACCESS POINT

## ORDERING INFORMATION

Part Number	Description
-------------	-------------

### CONFIGURED MODELS

XR-320	Integrated Dual radio 2x2 MIMO 802.11ac wall mount wireless AP and 4-Gigabit port wired switch for high speed Gigabit in-room connectivity; includes 802.11ac license
--------	---

**Global Headquarters**  
 3800 Golf Road, Suite 360  
 Rolling Meadows, IL 60008  
 USA  
 Tel: +1 (888)863-5250

**UK Office**  
 Unit B2, Linhay Business Park,  
 Eastern Road  
 Ashburton, United Kingdom,  
 TQ13 7UP  
 Tel: +44 1364 655500

**San Jose Office**  
 2590 N. 1st Street, Suite 220  
 San Jose, CA 95131 USA

**Cambium Networks Consulting Private Ltd**  
 5th Floor, Quadrant 1, Umiya Business Bay  
 Tower 2, Outer Ring Road  
 Kadubisenahalli, Varthur Hobli Road  
 Bangalore East Taluk, Bangalore- 560037