

802.11ac Wave 1 Dual Radio 2x2 AP

QUICK LOOK:

- No centralized controller eliminates single point of failure
- Flexible cloud or on-premises management options
- Application visibility and policy control
- EasyPass simplified Wi-Fi access
- SSO with Office 365 and Google G Suite



With a powerful integrated controller, zero-touch provisioning and available cloud-based network management, X2-120 Access Point (AP) provides powerful Wi-Fi solutions for environments including classrooms, offices, hospitals, hotel rooms, and more. XD-120 is backward compatible and supports the latest 802.11ac Wi-Fi standards at an affordable cost.

SIMPLIFIED ACCESS MANAGEMENT

EasyPass Access Services provides a highly secure solution integrated with XMS management. EasyPass simplifies the process of connecting users to the network, including self-provisioned access for guests and easy on-boarding of BYOD devices for employees.



EASY TO MANAGE

Combined with the Xirrus Management System (XMS), the X2-120 AP delivers complete visibility and control of the Wi-Fi network, including users, devices, applications, network traffic and the RF environment - all from a single console. Designed for simple deployment, zero-touch configuration gets your network up and running in just minutes.

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Access Point Specifications

Radios	2
	2x2, 867 Mbps
	SU-MIMO
Wi-Fi	802.11a/b/g/n/ac
Maximum Wi-Fi Bandwidth	1.17 Gbps
Maximum Associated Devices	512 per AP

Wired Uplinks	1 GbE
Maximum Power Consumption	12.5 W (PoE)
Dimensions	20.32 cm Dia x 46.23 mm H (8 in Dia x 1.82 in H)
Weight	907.18 g (2 lbs)
Operating Temperature	0°C to 50°C (32°F to 122°F), 5-90% humidity, non-condensing
Storage Temperature	-40°C to 70°C (-40°F to 158°F)

Network Specifications

RF	
Management	

In-band 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 RMON / packet captures

RF monitor

2.4 & 5 GHz Honeypot control – Increase available

2.4 & 5 GHz wireless device density through management of spurious 2.4 & 5 GHz association traffic

Ultralow power mode – maximize wireless channel

Re-use and increase wireless device density through tight power controls

Radio assurance for radio self-test and healing



Network Specifications cont'd

High Availability	Supports hot standby mode for mission critical areas
	In-service AOS software upgrade process increases network availability for 24x7 operations
Environmentally Friendly	Supports ability to turn off radios based on schedule
IPv6 Support (IN CLI ONLY)	IPv4 and IPv6 dual stack client support
	IPv6-only network
	Increase wireless device density through control of unnecessary IPv6 traffic over IPv4-only networks
	IPv6 functions: IP addressing, DNS, filters, application control, syslog, SNMP management, SSH, Telnet, FTP, DHCP

RFC Support	RFC 768 UDP
	RFC791IP
	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 bits



Network Specifications cont'd

Authentication

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

IEEE 802.1x

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 passthrough

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

Support for Xirrus EasyPass Access services for employee SSO, BYOD, IoT and guest access

Regulatory Compliance

CE Mark:

EU CE Mark

EN300 328 V2.1.1 with DFS,

EN 301 893 V2.1.1 with DFS,

EN 301 489-1 V2.1.1 EN 301 489-17 V2.2.1

EN55022/EN55024

Wi-Fi Alliance (WPA2, VHT5G, Hotspot 2.0).

US FCC Part 15 subparts B,C,E with DFS (new rules)

Canada: ICES-0003, ICES 210 with DFS

Safety:

UL60950-1 2nd edition

CAN/CSA C22.2 No. 60950-1-07, 2nd edition,

2011-12

EN 60950-1:2006/A2:2013

IEC 60950-1:2005/A2:2013

EN 60950-22:2006+AC:2008 (outdoor units)

UL60950-22 (outdoor units)

CSA C22.2 No 60950-22-07 (outdoor units)

EN60601-1-2 (RF exposure)

EU Directive 2002/95/EC (RoHS)

EU Directive 1907/2006/EC (REACH)



Network Specifications cont'd

Channel Support

2.4 GHz

(BASED UPON COUNTRY CODE SELECTIONS) 1,2,3,4,5,6,7,8,9,10,11,12,13,14

Channel Support 5 GHz

(BASED UPON COUNTRY CODE SELECTIONS) 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

Management

Management

SNMP v1, v2c, v3

RFC 854 Telnet

RFC 1155 Management information for TCP/IP Based Internets

RFC 1156 MIB

RFC 1157 SNMP

RFC 1212 Concise MIB definitions

RFC 1213 SNMP MIB II

RFC 1215 A Convention for defining traps for use with the SNMP

RFC 1350 TFTP

RFC 1643 Ethernet MIB

RFC 2030 Simple Network Time Protocol SNTP

RFC 2578 Structure of management information version 2 (SMIv2)

RFC 2579 Textual conventions for SMIv2

RFC 2616 HTTP 1.1

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 2819 Remote network monitoring management information base

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 3416 Version 2 of the Protocol Operations for the Simple Network Management Protocol (SNMP)

RFC 3417 Transport mappings for the Simple Network Management Protocol (SNMP)

RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)

RFC 3584 Coexistence between version 1, version 2, and version 3 of the Internet-standard network management framework

RFC 3636 Definitions of managed objects for IEEE Xirrus Private MIBs

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

Management Interfaces

Command line interface

Web interface (http / https)

Xirrus Management System (XMS) XMS-Cloud

XMS-Enterprise



Standards

Wi-Fi Protocols	IEEE 802.11a, 802.11ac, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11u, 802.11w
Wired	IEEE 802.3 10BASE-T, IEEE 802.3.u 100BASE-TX , 1000BASE-T, 802.3ab 1000BASE-T
Protocols	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
	DHCP option 82



Ordering Information		
Configured Models		
X2-120	Dual-radio 2x2 MIMO 802.11ac AP with up to 1.2 Gbps of total Wi-Fi bandwidth; integrated controller with operating system	
Accessories		
XP1-MSI-20	1 Port 20 W PoE Injector that powers 1 AP (X2-120, XR-500). Requires order of appropriate XS-PWR-XX cord for country where the AP will be deployed; refer to Accessories Guide for other options including managed multi-port injectors	
Mountings	Refer to Accessories Guide for options, part numbers and detailed information	

Cambium XMS and Support	
XMSC-SUB-2R-1	XMS-Cloud 1-year subscription: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-SUB-2R-3	XMS-Cloud 3-year subscription: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-SUB-2R-5	XMS-Cloud 5-year subscription: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
EASY-SUB-2R-1	EasyPass 1-year subscription for a 2-radio AP operating with XMS-Cloud or XMS-Enterprise
EASY-SUB-2R-3	EasyPass 3-year subscription for a 2-radio AP operating with XMS-Cloud or XMS-Enterprise
EASY-SUB-2R-5	EasyPass 5-year subscription for a 2-radio AP operating with XMS-Cloud or XMS-Enterprise
CCADV-SUP-X2-120-1	Cambium Care Advanced, 1-year support for one X2-120 Wireless AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-X2-120-3	Cambium Care Advanced, 3-year support for one X2-120 Wireless AP. 24x7 TAC upport, SW updates, and NBD advance replacement for HW
CCADV-SUP-X2-120-5	Cambium Care Advanced, 5-year support for one X2-120 Wireless AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCPRO-SUP-X2-120-1	Cambium Care Pro, 1-year support for one X2-120 AP. 24x7 TAC support, SW updates
CCPRO-SUP-X2-120-3	Cambium Care Pro, 3-year support for one X2-120 AP. 24x7 TAC support, SW updates
CCPRO-SUP-X2-120-5	Cambium Care Pro, 5-year support for one X2-120 AP. 24x7 TAC support, SW updates

ABOUT CAMBIUM NETWORKS

Cambium Networks empowers millions of people with wireless connectivity worldwide. Its wireless portfolio is used by commercial and government network operators as well as broadband service providers to connect people, places and things. With a single network architecture spanning fixed wireless and Wi-Fi, Cambium Networks enables operators to achieve maximum performance with minimal spectrum. End-to-end cloud management transforms networks into dynamic environments that evolve to meet changing needs with minimal physical human intervention. Cambium Networks empowers a growing ecosystem of partners who design and deliver gigabit wireless solutions that just work.

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