# XD2-230 WAVE 2 INDOOR ACCESS POINT

The XD2-230 is an intelligent 802.11ac Wave 2 Access Point (AP) that is very easy to deploy and simple to manage from the cloud or on-premise. Designed with a powerful integrated controller, layer 7 application visibility and simple user access with EasyPass, this AP provides a seamless solution for environments requiring high performance Wi-Fi connectivity, such as classrooms, offices, hospitals, libraries, and more. The powerful XD2-230 AP has 3 radios, including Bluetooth Low Energy (BLE), and provides secure access for Wi-Fi users and IoT devices. This highly extensible AP easily integrates with 3rd party software through standards based JSON APIs for advanced capabilities such as location services. With a click of a button, software defined radios enable an instant increase in 5GHz capacity to adapt to changing client needs to deliver the industry's best price-performance solution.

## KEY BENEFITS

**EASY TO MANAGE** — Designed for simple deployment, zero-touch configuration gets your network up and running in minutes. Combined with the Xirrus Management System (XMS), this solution provides complete visibility and control to easily manage users, devices and applications, all from a single console.

**HIGH PERFORMANCE** — Packed with performance, this dual radio AP delivers 2x the 5GHz Wi-Fi capacity compared to competitive APs. Instantly boost performance with the click of a mouse to adapt to changing client devices and optimize the user experience.

**SIMPLE USER ACCESS** — Xirrus EasyPass Access Services, integrated with Xirrus Management System-Cloud (XMS-Cloud): at no extra charge, provides a highly secure solution to simplify users connecting to the network, including single sign-on (SSO) with Microsoft and Google domains, self-provisioned access for guests, and easy onboarding of BYOD and headless IoT devices.

## AT A GLANCE

- High performance 802.11ac Wave 2 AP
- Software-defined radios enable all-5GHz deployment
- EasyPass simplifies Wi-Fi access
- Bluetooth ready AP for locationing
- SSO with Office 365 and Google Apps
- Manage from the cloud or on premise

# XD2-230 WAVE 2 INDOOR ACCESS POINT

## CONFIGURATION SPECIFICATIONS

| | XD2-230 |
|---|---|
| Chassis Dimensions | 7.7" Diameter, 2.3" H |
| Supported Standards | 802.11a/b/g/n/ac (Wave 2) |
| Total Number of Radios | Total 3:<br>1 - 2.4GHz / 5GHz - software defined radio (802.11a/b/g/n/ac Wave 1)<br>1 – 5GHz (802.11a/n/ac Wave1/Wave 2)<br>1 - Bluetooth Low Energy (BLE) |
| Radio Type | 3x3, 11ac Wave 2 |
| MIMO Technology | MU-MIMO: 3 streams<br>SU-MIMO: 3 streams |
| Channel Bonding | Up to 160MHz+ |
| Maximum Wi-Fi Bandwidth | 3.9Gbps |
| Bluetooth Technology | Yes |
| Wi-Fi Threat Sensor | Yes |
| Integrated Antennas | 6 |
| Maximum Associated Devices | 480 |
| Max SSIDs | 16 |
| Max VLAN | 64 |
| Wired Uplinks - support four modes<br>802.3ad (aggregate traffic), broadcast, link-backup (failover), load balancing , mirrored | 2-1GbE |
| Maximum Power Consumption | 20W - 802.3at PoE+ compatible |
| Weight | 1.8lbs |

+ Hardware ready platform requires a future release of software for full 160MHz bonding
* With Bluetooth

## TECHNICAL SPECIFICATIONS

| Features | Specifications | |
|---|---|---|
| RF Management | Dynamic channel configuration<br>Dynamic cell size configuration<br>Monitor radio for threat assessment and mitigation<br>Wired and Wireless RMON / Packet Captures Radio<br>assurance for radio self-test and healing | RF monitor<br>2.4 & 5GHz Honeypot Control – Increase available<br>2.4 & 5GHz wireless device density through management<br>of spurious 2.4 & 5GHz association traffic.<br>802.11ac Beamforming |
| High Availability | Supports hot stand-by mode for mission critical areas | |
| Environmentally Friendly | Supports ability to turn off radios based on schedule configuration | |
| Wireless Protocols | IEEE 802.11a, 802.11ac, 802.11b, 802.11d, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11k, 802.11n, 802.11w | |

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| Features | Specifications | |
|---|---|---|
| Wired Protocols | IEEE 802.3 10BASE-T, IEEE 802.3.u 100BASE-TX , 1000BASE-T, 802.3ab 1000BASE-T<br>IEEE 802.1q – VLAN tagging<br>IEEE 802.3ad– Link aggregation<br>IEEE 802.1d – Spanning tree<br>IEEE 802.1p – Layer 2 traffic prioritization<br>DHCP option 82 | |
| IPv6 Support (in CLI only) | IPv4 and IPv6 dual stack client support<br>IPv6 only network<br>Increase wireless device density through control of unnecessary IPv6 traffic over IPv4 only networks<br>IPv6 functions: IP addressing, DNS, filters, application control, syslog, SNMP management, SSH, Telnet, FTP, DHCP | |
| RFC Support | RFC 768 UDP<br>RFC 791 IP<br>RFC 2460 IPV6 (Bridging only)<br>RFC 792 ICMP<br>RFC 793 TCP | RFC 826 ARP<br>RFC 1122<br>RFC 1542 BOOTP<br>RFC 2131 DHCP |
| Security | WPA<br>IEEE 802.11i WPA2, RSN<br>RFC 1321 MD5 Message-digest algorithm<br>RFC 2246 TLS protocol version 1.0 | RFC 3280 Internet X.509 PKI certificate and CRL profile<br>RFC 4347 Datagram transport layer security<br>RFC 4346 TLS protocol version 1.1 |
| Encryption Types | Open, WEP, TKIP-MIC: RC4 40, 104 and 128 bits<br>SSL and TLS: RC4 128-bit and RDA 1024 and 2048 bit | |
| Authentication | • IEEE 802.1x<br>• RFC 2548 Microsoft vendor-specific RADIUS attributes<br>• RFC 2716 PPP EAP-TLS<br>• RFC 2865 RADIUS Authentication<br>• RFC 2866 RADIUS Accounting<br>• RFC 2867 Tunnel Accounting<br>• RFC 2869 RADIUS Extensions<br>• RFC 3576 Dynamic Authorizations extensions to RADIUS<br>• RFC 3579 RADIUS Support for EAP<br>• RFC 3748 EAP-PEAP | • RFC 5216 EAP-TLS<br>• RFC 5281 EAP-TTLS<br>• RFC 2284 EAP-GTC<br>• RFC 4186 EAP-SIM<br>• RFC 3748 Leap Passthrough<br>• RFC 3748 Extensible Authentication Protocol<br>• Web Page Authentication<br>• WPR, Landing Page, Redirect<br>• Supports internal/external WPR, Landing Page and Authentication<br>• Supports EasyPass Access Services |
| Regulatory Compliance | EMC, Safety and Wireless<br>• FCC CFR 47 Part 15, Class B<br>• ICES-003 Class B<br>• FCC Subpart C 15.247<br>• FCC Subpart E 15.407<br>• RSS-247<br>• EN 301 893<br>• EN 300 328<br>• EN 301 489 1 & 17 | • EN 62311<br>• EN 55022/EN 55024/EN 55032<br>• AS/NZS4268 + CISPR22<br>• Safety<br>• IEC 60950-1<br>• EN 60601-1-2/EN 60950-1<br>• UL 60950-1<br>• CSA 22.2 No.60950-1-03 |
| Environmental Specifications | Operating Temperature: 0-50°C, 5-90% humidity, non-condensing<br>Storage Temperature: -40°C to 70°C | |
| Channel Support 2.4GHz (based on country code selection) | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 | |
| Channel Support 5GHz (based on country code selection) | U-NII-1 – Non-DFS channels<br>36 40 44 48<br>U-NII-2A DFS channels*<br>52 56 60 64 | U-NII-2C DFS channels*<br>100 104 108 112 116 120 124 128 132 136 140 144<br>U-NII-3 Non-DFS channels<br>149 153 157 161 165 |

# XD2-230 WAVE 2 INDOOR ACCESS POINT

| Features | Specifications | |
|---|---|---|
| Management Interfaces | Command Line Interface (accessible via SSH or Telnet) Web (https) | Xirrus Management System (XMS) XMS-Cloud XMS-Enterprise |
| Management | • SNMP v1, v2c, v3<br>• RFC 854 Telnet<br>• RFC 1155 Management Information for TCP/IP Based Internets<br>• RFC 1156 MIB, RFC 1157 SNMP<br>• RFC 1212 Concise MIB Definitions<br>• RFC 1213 SNMP MIB II<br>• RFC 1215 Traps for use with the SNMP<br>• RFC 1350 TFTP<br>• RFC 1643 Ethernet MIB<br>• RFC 2030 SNTP<br>• RFC 2578 SMIv2 and combine with previous SNTP<br>• RFC 2579 Textual Conventions for SMIv2<br>• RFC 2616 HTTP 1.1<br>• RFC 2665 Definitions of Managed Objects for the Ethernet Like Interface Types<br>• RFC 2674 Managed Objects for Bridges with Traffic Classes, Multicast Filtering and VLANs<br>• RFC 2819 RMON Management Information Base | • RFC 2863 The Interface Group MIB<br>• RFC 3164 BSD Syslog Protocol<br>• RFC 3414 User-based Security Model (USM) for version 3 of SNMPv3<br>• RFC 3416 Protocol operations of SNMPv2<br>• RFC 3417 Transport Mappings for SNMP<br>• RFC 3418 MIB for SNMP<br>• RFC 3584 Coexistence between V1, V2 and V3 of the Internet-standard Network Management Framework<br>• RFC 3636 Definitions of Managed Objects for IEEE Xirrus Private MIBs<br>• Integration with Splunk for accurate search and analysis of intra-organizational IT events<br>• Netflow Export v9 and IPFIX compatibility allows for IP traffic statistics collection<br>• RFC 6455 Two way WebSocket based communication protocol<br>• STOMP Simple Text Oriented Message Protocol for message oriented middleware |

* DFS channels will be available upon regulatory certification.

| Part Number | Description |
|---|---|
| XD2-230 | High performance 802.11ac (Wave2) AP with 3x3 MU-MIMO technology and integrated controller; delivers up to 3.9Gbps of total Wi-Fi bandwidth and operates with PoE+ (802.3at) |

## SOFTWARE LICENSES

| | |
|---|---|
| AOS-APPCON | Application Control license per radio to enable Deep Packet Inspection (DPI) for application visibility and control |

## ACCESSORIES

| | |
|---|---|
| XP1-MSI-30 | 1 Port 30W PoE Injector that powers 1 AP. Order appropriate XS-PWR-XX cord for specific country |
| Mounting Brackets | Refer to accessories guide for options, part numbers and detailed information |

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