AM-3200-WF-I

AirMedia® Series 3 Receiver 200 with Wi-Fi® Connectivity, International

- *Complete room solution enables secure wired and wireless presentation with AirMedia® wireless presentation from laptops, smartphones, tablet devices, and AirMedia Connect Adapters*
- *Integration friendly features such as HDMI® input, balanced audio output, and display control via RS-232 and IR*
- *Enables smart automation via intelligent display control, personal device control, occupancy detection, and integration into a broader connected ecosystem*
- *XiO Cloud® service support for remote provisioning and management*
- *Enterprise-grade security and content encryption protects privacy and ensures compliance with IT policies*
- *AirMedia Canvas enables content sharing with simultaneous windows for multi-user collaboration. Present up to two sources out of the box or up to nine sources with a software license (sold separately, coming soon)*
- *Wireless conferencing and presentation allows for collaboration with in-room and remote participants (license required, coming soon)*
- *Integrates with Appspace® digital signage software platform for content display when system is not in use (coming soon)*
- *Integrates with optional Kaptivo® Whiteboard Device to display and share whiteboard content (coming soon)*

The AirMedia® Series 3 Receiver 200 (AM-3200-WF-I) enables secure wireless collaboration in the modern digital workspace. Easy to deploy and manage, install the Receiver in conference rooms, huddle rooms, lounges, lobbies, or almost any space to establish a productive meeting environment.

Connect and Present

The Receiver mounts invisibly behind or beside a wall-mount display and enables a smart room with wireless collaboration. It features AirMedia wireless presentation capability, an HDMI® output to the display (up to 4K), an HDMI input, and various USB interfaces for wireless conferencing and touch interactivity. Connect your laptop, smart phone, tablet, AirMedia Connect adapter, or other source type to instantly present the source image on the display.

AirMedia Wireless Presentation

With AirMedia technology, users can wirelessly present content from laptops, smartphones, and tablet devices via built in Wi-Fi® network capabilities or via an external Wi-Fi® wireless network. Present content from desktop or laptop computers using downloadable client software, the AirMedia extension for the Google Chrome™ web browser, or Miracast® screen mirroring technology (Windows® 10 computers only). Present content from Android™ and iOS® mobile devices with the AirMedia app.

For more information about AirMedia, visit www.crestron.com/airmedia.[1]

HDMI Connectivity

In addition to AirMedia, the AM-3200-WF-I includes an HDMI input for direct connection of a local source, such as a Mini PC, or a portable laptop computer via an optional wall plate or cable. The HDMI input supports HD 1080p/60 signals.[2]

AirMedia Canvas

Present multiple sources simultaneously with the AirMedia Canvas feature. AirMedia Canvas supports a maximum of two sources out of the box or nine sources with a software license (sold separately, coming soon). To maximize screen coverage, AirMedia Canvas automatically configures the best possible layout based on the number of active sources, the type of sources, and their aspect ratios.[3] Use the AirMedia app or a connected touch screen (sold separately) to manage sources and their position on the display.

Enhanced Onscreen Experience

When no source is connected, the AM-3200-WF-I displays a customizable welcome screen on the room display with simple instructions for connecting and presenting. Integration with Microsoft Exchange Server® (for Outlook® and Microsoft 365® software users), Google Calendar™, or Crestron Fusion® room scheduling software allows the space's availability and meeting details to appear onscreen. As the meeting progresses, notifications appear periodically to indicate both the time left in the meeting and the next scheduled event. Pop-up messages sent from Crestron Fusion may also appear in the event of an emergency or to deliver an important announcement.

Add-on Control Options

Enable manual control of the AM-3200-WF-I by adding a 7 in. or 10 in. Crestron® TS- or TSW- 70 series touch screen. The touch screen provides an additional view of the room schedule and meeting details as well as controls for input source selection, display power on/off, and display volume and mute. Add a Power over Ethernet occupancy sensor (CEN-ODT-C-POE) to control display or digital signage on/off based on room occupancy or vacancy.

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XiO Cloud® Provisioning and Management Service

The AM-3200-WF-I is compatible with the XiO Cloud service, which enables installers and IT managers to easily deploy and manage thousands of devices. The XiO Cloud service allows for system alerts and network management and provisioning.

For more information, visit www.crestron.com/xiocloud.

Enterprise-Grade Security

The AirMedia Presentation System is an enterprise-grade solution that can be deployed across hundreds of spaces and set up easily using just a web browser, Crestron Fusion, or XiO Cloud software. Employing standard network security protocols such as 802.1x network access control, Active Directory® authentication, and AES content encryption, the AM-3200-WF-I protects privacy and ensures compliance with your organization's IT policies.

Hybrid Wireless Connectivity with the AirMedia Adapter (Coming Soon)

As an alternative to software based AirMedia wireless presentation, the AM-3200-WF-I is compatible with the AirMedia Presentation Adapter (AM-TX3-100-I, coming soon). Simply plug the adapter into a personal device's USB-C® port to connect to the AM-3200-WF-I. The adapter communicates wirelessly with the system using built-in Wi-Fi to display content up to a 4K/30 resolution.

Wireless Conferencing (Coming Soon)

Wireless conferencing provides a premium collaboration experience by enabling video calling from almost any laptop device or meeting room application.[4]

Native Appspace Functionality (Coming Soon)

Integration with the Appspace® digital signage application allows the AM-3200-WF-I to show Appspace content on a connected display when a space is not in use.

Whiteboard Capture Device Compatibility (Coming Soon)

The AM-3200-WF-I works with Kaptivo® Whiteboard Capture Devices. Simply pair the whiteboard capture device with the AM-3200-WF-I, and all of the device controls are available on a connected touch screen.[5] Use a touch screen to manage remote participants, start and stop whiteboard sessions, route whiteboard content to an associated display, or email a snapshot or timeline of a whiteboard session.[6]

For more information, visit kaptivo.com/crestron.

Crestron Fusion Room Monitoring (Coming Soon)

Presentation spaces can be managed and centrally monitored through the Crestron Fusion enterprise management service. By adding an optional occupancy sensor (CEN-ODT-C-POE), the AM-3200-WF-I can report and log when people are in the space, turn the display on and off accordingly, and make unused spaces available for new bookings. Crestron Fusion software supports room scheduling, and can integrate with a variety of third-party calendaring applications. Instant alerts notify the help desk to rapidly resolve any problems and maximize uptime and workflow.

For more information about Crestron Fusion, visit www.crestron.com/fusion.

Specifications

Communications

Ethernet	100/1000 Mbps, auto-switching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1x, Active Directory authentication, HTTPS web browser setup and XiO Cloud service, 802.3af compliant
Wi-Fi	Dual-band 802.11a/b/g/n/ac/ax (2.4 GHz & 5 GHz); Up to 100 ft (30 m) range at 80 Mbps, subject to site-specific conditions
AirMedia	Via Ethernet: IPv4, mDNS, TLS, AES[1]; Via wireless access point: IEEE 802.11/b/g/n/ac/ax, 2.4 GHz or 5 GHz
USB Host	USB 2.0 for connecting a USB conferencing peripheral; USB 3.0 for connecting a USB conferencing peripheral
USB Device	USB 3.0 for computer console (installer setup and firmware update) or conference system
RS-232	2-way display device control up to 115.2k baud with hardware and software handshaking
IR/Serial	1-way display device control via infrared up to 1.1 MHz or serial TTL/RS-232 (0-5V) up to 19.2k baud
HDMI Input	HDCP 1.4, EDID; Supports management of HDCP and EDID
HDMI Output	HDCP 2.2, EDID, CEC; Supports management of HDCP and EDID

AirMedia[1]

OS Support	Apple® iOS®, Android™, Windows® 7, Windows 8, Windows 10, macOS®, Chrome OS™
Video Frame Rate	Up to 30 fps, audio supported **NOTE:** Audio is not supported on Android devices.
Bitrate Peak	0.25 to 8.5 Mbps, variable depending on content complexity

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Bitrate Average	1.4 Mbps typical

NOTES:

- The bitrate for Apple native mirroring may deviate from above depending on the OS version and content.
- The AirMedia Extension for the Google Chrome browser relies on web technologies for screen sharing that are built-in to the web browser. Performance variations with motion video (quality and frame rate) may occur based upon the encoding capabilities of the Chrome OS device and the nature of the content being displayed (i.e., high-motion video).

Audio Format	Stereo

Video

Input Signal Types	AirMedia, HDMI (DVI & Dual-Mode DisplayPort™ compatible[2]), Kaptivo (coming soon); Simultaneous display of up to either two sources (default functionality) or nine sources (license sold separately, coming soon) with AirMedia Canvas[3]
Maximum Input Resolution	1920x1080@60Hz (HD 1080p60), 4:2:2, 36 bit color depth

NOTE: Other input resolutions are supported at pixel clock rates up to 148 MHz; interlaced video is not supported.

Output Signal Types	HDMI (DVI compatible[2])
Output Resolutions	640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x800@60Hz,[7] 1366x768@60Hz,[7] 1440x900@60Hz,[7] 1600x900@60Hz,[7] 1600x1200@60Hz, 1680x1050@60Hz,[7] 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 3840x2160@30Hz (2160p30), 3840x2160@50Hz (2160p50), 3840x2160@60Hz (2160p60)

NOTE: All video inputs will be scaled to the selected HDMI output resolution.

Background & Logo File Support	GIF, JPEG, PNG

Audio

Input Signal Types	AirMedia, HDMI (Dual-Mode DisplayPort™ compatible[2])
Output Signal Type	HDMI
Input/Output Format	2 channel LPCM

NOTE: Audio input signals are passed to the output without any processing. Volume control capability requires a display device with discrete volume, up, down, and mute commands available via CEC, IP, IR, or RS-232.

Connectors

ANT-A & ANT-B	(2) SMA connectors for included external Wi-Fi antennas
IR	(1) 4-pin 3.5 mm detachable terminal block; IR/Serial output port for display device control; IR output up to 1.1 MHz; 1-way serial TTL/RS-232 (0-5V) up to 19200 baud

NOTE: IR port #2 is not used. IRP2 emitter sold separately.

COM	(1) 5-pin 3.5 mm detachable terminal block; Bidirectional RS-232 port for display device control; Up to 115.2k baud, hardware and software handshaking support
AUDIO OUT	(1) 5-pin 3.5 mm detachable terminal block; Balanced/unbalanced stereo line-level audio output; Maximum Output Level: 4 Vrms balanced, 2 Vrms unbalanced; Output Impedance: 200 ohms balanced, 100 ohms unbalanced
microSD	For future use
HDMI INPUT	(1) HDMI Type A connector; HDMI digital video/audio input; (DVI & Dual-Mode DisplayPort compatible[2])
HDMI OUTPUT	(1) HDMI Type A connector; HDMI digital video/audio output (DVI compatible[2])

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USB	(2) USB Type A connectors; USB 2.0 host port for USB conferencing peripheral; USB 3.0 host port for USB conferencing peripheral; (1) USB Type B connector; USB 3.0 device port for computer console or conference system
LAN PoE+	(1) 8-pin RJ-45 connector; 100Base-TX/1000Base-T Ethernet port and PoE+ Class 4
LAN AUX	For future use
24VDC 1.25A	(1) 2.1 x 5.5 mm DC power connector; 24VDC power input; PW-2412WU power pack sold separately

Controls and Indicators

PWR	(1) Green LED, indicates operating power supplied via the local power pack or PoE+
RESET	(1) Recessed push button for hardware reset
SETUP	(1) Recessed push button for onscreen IP address display and for pairing the device to an AM-TX3-100; (1) Red/White LED, indicates pairing status
ONLINE	(1) Green LED, indicates control system connection
HDMI IN/OUT	(2) Green LEDs, indicate HDMI signal presence at the HDMI input/output
microSD	For future use
LAN PoE+	(2) LEDs, green LED indicates Ethernet link status, amber LED indicates Ethernet activity
LAN AUX	For future use

Power

Power over Ethernet	IEEE 802.3af Class 4 Powered Device
Power Pack (sold separately)	Input: 100-240VAC, 50/60 Hz; Output: 1.25A @ 24VDC; Model: PW-2412WU
Power Consumption	14 W (typical)

Environmental

Temperature	32° to 104°F (-0° to 40° C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	47.8 BTU/hr

Construction

Chassis	Metal, black finish, with (2) integral mounting flanges, vented sides
Mounting	Freestanding, surface mount, or attach to a single rack rail

Dimensions

Height	1.26 in. (33 mm)
Width	7.40 in. (188 mm)
Depth	6.93 in. (177 mm)

Weight

1.9 lb (0.86 kg)

Compliance

Regulatory Model: M202011001

UL® Listed for US & Canada, CE, IC, FCC Part 15 Class B digital device

Models

AM-3200-WF
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Available Accessories

For a list of available accessories, visit the AM-3200-WF-I product page.

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Notes:

1. AirMedia wireless presentation requires a wired network connection between the AM-3200-WF-I and an external Wi-Fi wireless access point (not included). Laptops may alternately connect to AirMedia using a wired Ethernet connection. Full-motion video performance is dependent upon the performance of the network and the sending device. Computer client software and mobile device apps are available for download at www.crestron.com/airmedia.
2. Using an appropriate adapter or interface cable, the HDMI input can support DVI and Dual-Mode DisplayPort sources, and the HDMI output can provide a DVI signal. CBL-HD-DVI interface cables are available separately.
3. When the AirMedia Canvas feature is enabled, the 4:2:0 color space is used for high definition sources connected to the HDMI input port. When the AirMedia Canvas feature is disabled, the 4:4:4 color space is used. If the 4:4:4 color space is required by sources connected to the HDMI input port, the AirMedia Canvas feature should be disabled.
4. Crestron supports most mainstream devices and applications. Refer to the AirMedia Series 3 Product Manual for a complete list.
5. A TS- or TSW- 70 series 7 in. or 10 in. touch screen (sold separately) is required for operation.
6. Kaptivo integration with the AM-3200-WF-I is entirely configuration-based. When the whiteboard capture device is paired with the AM-3200-WF-I, programmatic control is not supported in SIMPL Windows or SIMPL# Pro. If custom program controls for a whiteboard capture device are required, use a DGE-100 in place of an AM-3200-WF-I.
7. With or without reduced blanking.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

The specific patents that cover Crestron products are listed online at patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

Specifications are subject to change without notice.

Rev 07/21/21

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