

AM-3100-WF

AirMedia® Series 3 Receiver 100 with Wi-Fi® Network Connectivity



- *Complete room solution enables secure wireless AirMedia® presentation from laptops, smartphones, tablet devices, and AirMedia Connect Adapters*
- *Enables smart automation via intelligent display control, personal device control, occupancy detection, and integration into a broader connected ecosystem*
- *Enterprise-grade security and content encryption protects privacy and ensures compliance with IT policies*
- *XiO Cloud® service support for remote provisioning and management*
- *Integrates with Appspace® digital signage software platform for content display*
- *AirMedia Canvas enables content sharing of two simultaneous sources for multi-user collaboration. Additional sources will be supported 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 optional Kaptivo® Whiteboard Device to display and share whiteboard content (coming soon)*

The AirMedia® Series 3 Receiver 100 (AM-3100-WF) 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 can be placed beneath, mounted beside, or mounted invisibly behind a display to implement a smart room with wireless collaboration. It features AirMedia wireless presentation capability, an HDMI® output to the display (up to 4K), 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

AirMedia Canvas

Present multiple sources simultaneously with the AirMedia Canvas feature. AirMedia Canvas supports two sources. Additional sources will be supported 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. 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-3100-WF 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-3100-WF 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.

XiO Cloud® Provisioning and Management Service

The AM-3100-WF 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.

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Native Appspace Functionality

Integrate the Appspace digital signage application with the AM-3100-WF. The AM-3100-WF can display content from an Appspace digital signage channel when no presentation is being made, or the room is not occupied.

NOTE: This is an early-preview feature and should not be deployed at the enterprise level. A full release of the feature is planned for the future.

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-3100-WF 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-3100-WF is compatible with the AirMedia Presentation Adapter (AM-TX3-100, coming soon). Simply plug the adapter into a personal device's USB-C® port to connect to the AM-3100-WF. The adapter communicates wirelessly with the system using built-in Wi-Fi network capabilities to display content up to a 4K30 resolution. During presentations, content is scaled to the selected HDMI output 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 with a software license (sold separately, coming soon).²

Whiteboard Capture Device Compatibility (Coming Soon)

The AM-3100-WF works with Kaptive® Whiteboard Capture Devices. Simply pair the whiteboard capture device with the AM-3100-WF, and all of the device controls are available on a connected touch screen.³ 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.⁴

For more information, visit kaptive.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-3100-WF 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
HDMI Output	HDCP 2.2, EDID, CEC; Supports management of HDCP and EDID

AirMedia¹

OS Support	Apple® iOS®, Android™, Windows 8, Windows 10, macOS®, Chrome OS™
Video Frame Rate	Up to 30 fps, audio supported

NOTE: Audio is not supported on Android devices.

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Output Resolutions 640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x800@60Hz, 1366x768@60Hz, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60)

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

Bitrate Peak 0.25 to 8.5 Mbps, variable depending on content complexity

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, Kaptivo (coming soon); Simultaneous display of up to either two sources (default functionality) or more (license sold separately, coming soon) with AirMedia Canvas

Maximum Input Resolutions AirMedia presentation: 1920x1080@30Hz (1080p30); AirMedia Connect Adapter: 3840x2160@30Hz (4K30)

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

Output Signal Types HDMI⁵ (DVI compatible⁶)

HDMI Output Resolutions 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
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

microSD For future use
HDMI OUTPUT (1) HDMI Type A connector; HDMI digital video/audio output⁵ (DVI compatible⁶)
USB (2) USB Type A connectors; For future use (1) USB Type B connector; USB 3.0 device port for computer console
LAN PoE+ (1) 8-pin RJ-45 connector; 100Base-TX/1000Base-T Ethernet port and PoE+ Class 4
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) White LED, indicates operating power supplied via the local power pack or PoE+
RESET (1) Recessed push button for hardware reset

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SETUP	(1) Recessed push button for onscreen IP address display and for pairing the device to an AM-TX3-100; (1) White LED, indicates pairing status
ONLINE	(1) White LED, indicates control system connection
HDMI OUT	(1) White LED, indicates HDMI signal presence at the HDMI output
microSD	For future use
LAN PoE+	(2) LEDs, green LED indicates Ethernet link status, amber LED indicates Ethernet activity

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	13.5 W (typical)

Environmental

Temperature	32° to 104°F (-0° to 40° C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	46.0 BTU/hr

Construction

Chassis	Plastic, black finish, with (4) integrated mounting holes, vented sides
Mounting	Freestanding, surface mount

Dimensions

Height	1.21 in. (31 mm)
Width	5 in. (127 mm)
Depth	5 in. (127 mm)

Weight

11.64 oz (330 g)

Compliance

Regulatory Model: M202018001

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

Models

AM-3100-WF

AirMedia® Series 3 Receiver 100 with Wi-Fi® Network Connectivity

AM-3100-WF-I

AirMedia® Series 3 Receiver 100 with Wi-Fi® Network Connectivity, International

Available Accessories

For a list of available accessories, visit the [AM-3100-WF](#) product page.

Notes:

1. AirMedia wireless presentation requires a wired network connection between the AM-3100-WF 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. Crestron supports most mainstream devices and applications. Refer to the [AirMedia Series 3 Product Manual](#) for a complete list.
3. A TS- or TSW- 70 series 7 in. or 10 in. touch screen (sold separately) is required for operation.
4. Kaptivo integration with the AM-3100-WF is entirely configuration-based. When the whiteboard capture device is paired with the AM-3100-WF, 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-3100-WF.
5. If you experience intermittent video output issues when connecting the receiver to certain displays, refer to [OLH Answer ID 1001107](#).
6. Using an appropriate adapter or interface cable, the HDMI output can provide a DVI signal. CBL-HD-DVI interface cables are available separately.
7. With or without reduced blanking.

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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.

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