

# 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
- Supports content sharing of four simultaneous sources for multi-user collaboration with AirMedia Canvas.
- Wireless conferencing and presentation allows for collaboration with in-room and remote participants (feature enablement required, coming soon)
- Integrates with optional Kaptive® 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](http://www.crestron.com/airmedia).<sup>1</sup>

### Multi-Source Presentation

Present up to four sources simultaneously with the AirMedia Canvas feature. To maximize screen coverage, AirMedia Canvas automatically configures the best possible layout based on the number of active presenters, 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](http://www.crestron.com/xiocloud).

### 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.

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**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.

### Crestron Fusion Room Monitoring

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](http://www.crestron.com/fusion).

### 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 feature enablement (sold separately, coming soon).<sup>2</sup>

### Whiteboard Capture Device Compatibility (Coming Soon)

The AM-3100-WF works with Kaptivo® 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.<sup>3</sup> 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.<sup>4</sup>

For more information, visit [kaptivo.com/crestron](http://kaptivo.com/crestron).

## Specifications

### Communications

<b>Ethernet</b>	100/1000 Mbps, auto-switching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, DHCP, SSL, TLS <sup>5</sup> , SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1x, Active Directory authentication, HTTPS web browser setup and XiO Cloud service, 802.3af compliant
<b>Wi-Fi</b>	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
<b>AirMedia</b>	Via Ethernet: IPv4, mDNS, TLS, AES <sup>1</sup> ; Via wireless access point: IEEE 802.11/b/g/n/ac/ax, 2.4 GHz or 5 GHz
<b>USB Host</b>	USB 2.0 for connecting a USB conferencing peripheral; USB 3.0 for connecting a USB conferencing peripheral
<b>USB Device</b>	USB 3.0 for computer console (installer setup and firmware update) or conference system
<b>HDMI Output</b>	HDCP 2.2, EDID, CEC; Supports management of HDCP and EDID

### AirMedia<sup>1</sup>

<b>OS Support</b>	Apple® iOS®, Android™, Windows 8, Windows 10, macOS®, Chrome OS™
<b>Video Frame Rate</b>	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 four sources 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** HDMI (DVI compatible<sup>6</sup>)

**HDMI Output Resolutions** 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x800@60Hz,<sup>7</sup> 1366x768@60Hz,<sup>7</sup> 1440x900@60Hz,<sup>7</sup> 1600x900@60Hz,<sup>7</sup> 1600x1200@60Hz, 1680x1050@60Hz,<sup>7</sup> 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 output (DVI compatible<sup>6</sup>)

**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+

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<b>RESET</b>	(1) Recessed push button for hardware reset
<b>SETUP</b>	(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
<b>ONLINE</b>	(1) White LED, indicates control system connection
<b>HDMI OUT</b>	(1) White LED, indicates HDMI signal presence at the HDMI output
<b>microSD</b>	For future use
<b>LAN PoE+</b>	(2) LEDs, green LED indicates Ethernet link status, amber LED indicates Ethernet activity

### Power

<b>Power over Ethernet</b>	IEEE 802.3af Class 4 Powered Device
<b>Power Pack (sold separately)</b>	Input: 100-240VAC, 50/60 Hz; Output: 1.25A @ 24VDC; Model: <a href="#">PW-2412WU</a>
<b>Power Consumption</b>	13.5 W (typical)

### Environmental

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

### Construction

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

### Dimensions

<b>Height</b>	1.21 in. (31 mm)
<b>Width</b>	5 in. (127 mm)
<b>Depth</b>	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](http://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. TLS 1.3 is currently not supported.
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](http://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](http://www.crestron.com/warranty) for full details.

The specific patents that cover Crestron products are listed online at [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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