

AM-3100-WF

AirMedia® Receiver 3100 with Wi-Fi® Network Connectivity



- Complete room solution enables secure wireless AirMedia® presentation from laptops, smartphones, tablet devices, and AirMedia Connect Adaptors
- 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 up to four simultaneous sources for multi-user collaboration with AirMedia Canvas.
- Wireless conferencing and presentation allows for collaboration with in-room and remote participants

The AirMedia® Receiver 3100-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 AirMedia Series 3 Receiver can be installed beneath, beside, or behind a display to implement a smart room with wireless collaboration. The receiver features AirMedia wireless presentation capability, an HDMI® output that connects to a display (up to 4K), and various USB interfaces for wireless conferencing. Connect your laptop, smart phone, tablet, AirMedia Connect Adaptor, 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 Google Chrome™, 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

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.

Wireless Conferencing

Wireless conferencing provides a premium collaboration experience by enabling video calling from almost any device.² The AirMedia application provides wireless access to a host of connected conferencing peripherals, such as soundbars, cameras, or speakerphones. When using the AirMedia application, peripherals are immediately available on the user's laptop for use in Microsoft Teams® or Zoom™ software.

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

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 when the room is not occupied.

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.

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 a web browser, 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 Connect Adaptor

As an alternative to software based AirMedia wireless presentation, the AM-3100-WF is compatible with [AirMedia Series 3 Connect Adaptors](#). Simply plug the adaptor into a personal device's USB-C® port to connect to the AM-3100-WF. The adaptor communicates wirelessly with the system using built-in Wi-Fi network capabilities to display content up to a 4K30 resolution. Use the LED-backlit capacitive touch buttons to start, stop, or pause the presentation at any time. Connect up to eight adaptors to a single receiver to maximize the space's collaboration abilities.

Specifications

Communications

Ethernet	100/1000 Mbps, auto-switching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, DHCP, SSL, TLS ³ , SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1x, Active Directory authentication, HTTPS web browser setup and XiO Cloud service, 802.3af compliant
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Wi-Fi	Dual-band 802.11a/b/g/n/ac/ax (2.4 GHz & 5 GHz); Up to 70 ft (23 m) range at 80 Mbps, subject to site-specific conditions
Bluetooth® Communications	Bluetooth version 5.0
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)
HDMI Output	HDCP 2.2, EDID, CEC; Supports management of HDCP and EDID

AirMedia Software¹

OS Support	Apple® iOS®, Android™, Windows 10, Windows 11, macOS®, Chrome OS™
Video Frame Rate	Up to 30 fps, audio supported

NOTE: Audio is not supported on Android devices.

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)
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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
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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

Wireless Conferencing

OS Support (AirMedia Application) Windows 10, Windows 11

OS Support (AirMedia Connect Adaptor) Windows 10, Windows 11, macOS 11 or later

Supported Conferencing Services Microsoft Teams software;
Zoom software

Supported Conferencing Peripherals For a list of supported conferencing peripherals, refer to [OLH 1001764](#).

Video

Input Signal Types AirMedia;
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 compatible⁴)

HDMI Output Resolutions 1280x720@50Hz (720p50),
1280x720@60Hz (720p60),
1280x800@60Hz,⁵ 1366x768@60Hz,⁵
1440x900@60Hz,⁵ 1600x900@60Hz,⁵
1600x1200@60Hz, 1680x1050@60Hz,⁵
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 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 caching digital signage content

HDMI OUTPUT (1) HDMI Type A connector;
HDMI digital video/audio output (DVI compatible⁴)

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

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

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PWR	(1) White 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) 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	(1) microSD slot
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)

NOTE: When wireless conferencing is used, the receiver must be powered by either Power over Ethernet+ (PoE+) or a power pack (sold separately).

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

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

Models

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AirMedia® Receiver 3100 with Wi-Fi® Network Connectivity

AM-3100-WF-I

AirMedia® Receiver 3100 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 AirMedia receiver 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. For a list of supported conferencing peripherals, refer to [OLH 1001764](#).
3. TLS 1.3 is currently not supported.
4. Using an appropriate adapter or interface cable, the HDMI output can provide a DVI signal. CBL-HD-DVI interface cables are available separately.
5. 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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