

Yamaha AVENTAGE RX-A680 7.2-Channel Network A/V Receiver



Brand: Yamaha
Product Code: RX-A680BL

Price: \$549.95

Description

Enjoy immersive multi-channel sound with the **Yamaha** AVENTAGE RX-A680

7.2-Channel Network A/V Receiver. It delivers up to 80W of power per channel at

8 Ohms and features Dolby Atmos and DTS:X compatibility for object-based

audio support. Built-in Bluetooth and AirPlay support allows the receiver to

wirelessly stream music from compatible sources, such as smartphones and

tablets, while Yamaha's Compressed Music Enhancer helps to deliver optimized

sound quality.

Onboard Wi-Fi and Ethernet connectivity allows the AVENTAGE RX-A680 to

access music from your connected computer or NAS. Amazon Alexa

compatibility enables you to control certain functions of the receiver with just your

voice through your Alexa-enabled devices. With four HDMI inputs and one

output, this receiver can act as a video switcher for your HD source components.

It will pass through HDR UHD 4K signals and will upscale non-UHD signals to

near-4K quality for enhanced viewing of lower-resolution sources when paired

with a UHD display. The receiver also has a USB port for accessing media stored

on USB flash drives. YPAO sound optimization will calibrate the receiver to your

speakers and room setup for a tailored listening experience.

Product Features

Total Purity Concept

The Total Purity Concept is designed to encompass high-drive amp technology,

high-purity preamplification, anti-vibration technology, and independent, pure

power supplies. The receiver has fully discrete power amplifiers that help

minimize distortion and adopts pure independent power supplies, allowing

dedicated power supplies for the analog and digital circuitry to prevent digital

noise from affecting analog circuitry. The anti-vibration heat sinks are designed to

suppress vibration from transistors and sound pressure.

Anti-Resonance Technology

The Anti-Resonance Technology Wedge is a fifth foot in the center of the

receiver. It is engineered to dampen vibrations from the power transformer,

power transistors, and heat sinks, as well as vibrations that might be caused by

the sound from the speakers.

Foundational Design

The feet of the receiver feature a high-density structure that utilizes both straight

and curved ribs to enhance strength and damping performance. This is designed

to enhance installation stability and disperse chassis resonance, effectively

eliminating external vibration. This helps to enhance low-range response, reduce

resonance peaks in the mid- and high-range, and provide dynamic sound and

accurate reproduction.

Aluminum Front Panel

The AVENTAGE RX-A680 features an aluminum front panel to help shield

sensitive circuitry from external noise and electronic radiation generated by

dimmer switches, fluorescent lighting, video monitors, and the like. This helps

ensure optimum sonic performance in a variety of installation environments.

HDR & UHD Support Over HDMI

This receiver can pass-through UHD video at 60 frames per second, as well as

the HDR10, Dolby Vision, and HLG HDR formats for enhanced contrast and

colors.

Wi-Fi, Bluetooth, and AirPlay Compatibility

Built-in Wi-Fi allows you to connect the receiver to your wireless router,

simplifying system connections for music streaming or enjoying networked audio

from your computer or NAS. Bluetooth connectivity is also onboard, allowing you

to stream audio from your compatible device into the receiver, or out from the

receiver to another Bluetooth device, such as a pair of headphones.

Dolby Atmos & DTS:X

These object-based sound technologies are designed to create realistic surround

sound, positioning and moving individual sounds to nearly any virtual point in

your room, including overhead.

YPAO Sound Calibration

YPAO (Yamaha Parametric Room Acoustic Optimizer) analyzes the room

acoustics and your system, then adjusts various audio parameters in the receiver

to provide enhanced sound for your room. By placing the included microphone at

your listening position and turning YPAO on, the system will automatically start

the tuning setup process for augmented performance in your home.

Control via the MusicCast App

The free MusicCast app puts control of the receiver into the palm of your hand.

Access your sources and streaming services, adjust volume and sound settings,

and link with other MusicCast devices for simultaneous playback throughout your

home.

Voice Control with Amazon Alexa and MusicCast

With Alexa voice control integration, all you have to do is ask. Use any Alexa-

enabled device, such as your Echo or Echo Dot, to control either the receiver by

itself or multiple MusicCast devices throughout your home.

Built-In Streaming Services

Explore a world of music with built-in streaming services. Syncing your playlists

and likes from your smart device to the receiver and discovering new music

becomes even easier with the receiver.

Zone B Second-Room Sound

Zone B output capability allows the receiver to send stereo sound to a second

zone, while leaving the main zone with a 5-channel output. The same source will

play in both zones – Zone B always mirrors the audio output in the Main Zone.

Phono Input

Enjoy music from your vinyl collection with your turntable through the dedicated

phono input.

Wireless Surround Speakers with Optional Equipment

Combine the receiver with optional MusicCast wireless speakers and enjoy the

convenience of a home theater with wireless surround speakers in a 5.1-channel

setup.

MusicCast for Whole-Home Music

Start with the AVENTAGE RX-A680 receiver in your home theater and expand to

other rooms over time with optional MusicCast speakers, soundbars, or hi-fi gear.

Stream your music and TV audio throughout the house over your existing Wi-Fi

network.

Additional Features

- 3D Cinema DSP with 17 programs

- Dialogue level adjustment

- Virtual presence speaker & virtual surround back speaker

· Dialogue lift

· Virtual CINEMA FRONT

· Compressed Music Enhancer (including for Bluetooth)

- Adaptive DRC (Dynamic Range Control)

- Initial volume and maximum volume setting

- Bi-amp capability

- 0 to 500 ms audio delay

- Four Burr-Brown 384 kHz / 32-bit DACs

- UHD upscaling from 1080p HDMI sources

- Deep Color, x.v.Color, 24 Hz refresh rate, and auto lip-sync support

- Color on-screen display

- Four SCENE buttons

· eARC support via future firmware update

Specifications

Main Unit

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Output Power

80 W per channel @ 8 Ohms, 20 Hz to 20 kHz,

0.09% THD, 2 channels driven

115 W per channel @ 8 Ohms, 1 kHz, 0.9%

THD, 1 channel driven

145 W per channel @ 6 Ohms, 1 kHz, 10%

THD, 1 channel driven (JEITA)

Dynamic Power per Channel

120 W @ 8 Ohms (front L/R)

140 W @ 6 Ohms (front L/R)

170 W @ 4 Ohms (front L/R)

190 W @ 2 Ohms (front L/R)

Channels

7.2

Object-Based Audio Support

Dolby Atmos, DTS:X

Audio Decoding

Dolby Atmos, Dolby TrueHD, Dolby Digital

Plus, Dolby Surround, DTS-HD Master Audio

Video

Pass-Through

4K/60p (4:4:4), HDR, and BT.2020

HDCP Version

HDCP 2.2 on all ports

Connectivity

Bluetooth

Yes (SBC / AAC)

Wi-Fi

Yes, dual-band (2.4 / 5 GHz)

AirPlay

Yes

Tuner

AM / FM

Inputs

4 x HDMI

1 x optical TOSLINK

2 x digital coaxial

3 x RCA composite video

3 x stereo RCA audio

1 x stereo RCA audio (phono, with ground

screw)

1 x 1/8" / 3.5 mm analog audio (front)

Outputs

1 x HDMI

1 x composite video

2 x subwoofer pre-out

1 x 1/4" / 6.35 mm headphone (front)

Other Connectors

1 x FM tuner antenna

1 x AM tuner antenna

1 x USB (front)

2 x wireless antennas

1 x Ethernet LAN

1 x 1/8" / 3.5 mm calibration mic (front)

Speaker Connectors

7 x binding post pairs

HDMI CEC

Yes

Audio Return Channel (ARC)

Yes

USB Formats

MP3, WMA, MPEG-4 AAC (up to 48 kHz /
16-bit), ALAC (up to 96 kHz / 24-bit), FLAC (up

to 192 kHz / 24-bit), WAV, AIFF (up to 192 kHz

/ 32-bit), DSD(up to 11.2 MHz)

General

Power Requirements	Not specified by manufacturer
Standby Power Consumption	IR Only: ?0.1 W
Dimensions (W x H x D)	Without Antenna: 17.125 x 6.375 x 13" / 43.5 x

16.2 x 33.02 cm

With Antenna: 17.125 x 8.875 x 13" / 43.5 x

22.54 x 33.02 cm

Weight

18.3 lb / 8.3 kg

Packaging Info

Package Weight

21.7 lb

Box Dimensions (LxWxH)

21.2 x 15.8 x 9.0"