RXV100 Product Suite

Solution Guide for the RXV100 Product Suite

This solution guide provides an overview for the RXV100 product suite.

Introduction

In today's business world, On-site meetings often involve a large number of participants. As such, effective video and audio collaboration in larger rooms requires the careful consideration of factors such as voice pickup range, visual coverage, and Unified Communications integration to ensure truly productive meetings. AudioCodes' RXV100 bundled product suite acts as Microsoft Teams Rooms on Windows devices to bring meetings to life and deliver the optimal collaboration experience for everyone.

Starting with a Standalone RXV100Hub for rooms with existing camera and TV through to a bundle with a small camera and scaled up to a high-end wide board room with scalable audio and video enhancements (for more information, see "Recommended Bundle Options" on page 4 below). Featuring:

- RXV100 bundles are scalable and can be mixed and matched to various options per your room requirements.

- Exceptional HD video captures the entire meeting room in stunning clarity and in any situation, from direct sunlight to low light levels.

- Auto framing means that every participant can be seen clearly. Auto framing smoothly adjusts the camera view according to active users and room scenery.

- No matter which bundle you select, the audio quality is superb.

- High quality microphones and speakers powered by Dolby's innovative technology results in crystal-clear sound, whilst a pickup range with a wide radius ensures that no business ever gets overlooked.

Solution Advantages

- Complete solution for meeting room that includes the audio video management and services.

- The RXV100 can be monitored and managed by IT departments from a central location with AudioCodes' One Voice Operations Center (OVOC) (*planned for Q2 2021)

- RXV100 can be monitored as part of Microsoft Teams admin center as well (TAC)

- RXVcam10 provides high quality video in a compact dimension for small room size.

- RXVcam50 support AI auto framing following face recognition (relevant for medium and large rooms and allows video framing adjustment according to the number of users in the room).

- Dolby sound system

- RXV100Hub uses smart cable management system

The heart of the RXV100 Suite is the RXV100Hub which offers smart control, share and collaboration technology for conference rooms of all sizes. The RXV 100Hub is the controller and the compute unit to which you can attach various cameras and audio peripherals to enhance your experience according to room needs (AudioCodes also offers cameras and audio peripheral bundles).

RXV100HUB

RXV100HUB is a co-development of Lenovo and AudioCodes based on the Lenovo ThinkSmart Hub certified for Microsoft Teams. Built on the Microsoft Teams Rooms platform your employees already know and use, RXV100Hub lets participants communicate via video, voice or content sharing to collaborate in real time. Its rotatable 10.1-inch touchscreen display makes it easy for members of the group to share and control the meeting. Featuring:

- Synchronize the room calendar with One click to join

- Proximity join via mobile, PC or tablet running Teams application

- **Meet now** to initiate ad-hoc online meeting

- During the meeting users can:

  - Mute/Unmute participant or all participants

  - View and approve participants (Lobby management)

  - Define what is displayed on the TV screen:

    o Video and content sharing

    o Multiple monitors

- The RXV100Hub design has **small footprint** (small real-estate on the meeting room table)

- Human sensor to light-up the 10.1inch touch controller when someone enters the room

- RXV100Hub is designed with **ultra-low noise** aiming for superior acoustic design.

- The **Smart One Cable** mechanism reduces tabletop clutter for a cleaner and neater space. One cable mechanism contains the following:

  - Summing cable that can be shaped into a docking

  - Two TV or Monitor HDMI out connectors

  - HDMI-ingest connection to allow users to stream content from laptop into the TV and meeting.

  - Network ethernet adapter

  - USB ports

RXV100Hub has a built-in audio system with outstanding audio quality while taking up less space than ever before. Hub includes an integrated audio system of 4 array microphones and 4 speakers that are designed for fully immersive 360-degree sound to meet the needs of a small to medium sized room with up to 10 users (depending on the room size).

In addition, it can be enhanced into a wider configurations and speakers offered in the various bundles such as RX50 (see Recommended Bundle Options table below). In case the customer already uses existing microphones and speakers, an array cab be connected into the RXV100Hub via USB or 3.5mm jack (*In such case, please consult with your local AudioCodes contacts to validate that your sound system is fully compatible with the RXV100).

Recommended Bundle Options

The RXV100Suite can be ordered in various option based on the room design and requirements.

The table below describes AudioCodes recommendations for general rooms size and needs.

Recommended Bundle Options

Room type	Compute and controller	Video	Audio	Bundle Name
Small 6-8 people	RXV100Hub	*RXVCam10	Integrated in RXV100Hub	RXV100-B05 (*RXVCam10 can be purchased separately)
Medium 8-12 people	RXV100Hub	RXVCam50	Integrated in RXV100Hub	RXV100-B20
Medium-Large Up to 20 people	RXV100Hub	RXVCam50	RX50	RXV100-B40
Large Up to 25 people	RXV100Hub	RXVCam50	RX50 And satellite mics	RXV100-B40 AC-SAT-MIC (should be purchased separately)

For Additional information on the various components, see the next page.

RXV100-B05+RXV10Cam

RXV100-B20

RXV100-B40

RXV100-B40 + Mic Ext

RXV100 Camera Options

RXVCam10

The AudioCodes RXVCam10 is a compact and affordable camera with a high-quality suitable for small-medium rooms. RXVCam10 can be used as a main camera in a small-room deployment or a second white board camera in wide room deployments. Featuring:

- 1080p Full HD real-time video
- 2-megapixel CMOS sensor for exceptionally sharp images in any situation, from direct sunlight to low light levels.
- Field of View: 87°
- Straightforward and easy to mount and set to the desired angle

RXVCam50

The AudioCodes RXVCam50 video camera is designed for medium to large-sized meeting rooms and conference rooms (up to 8m depth). It boasts vivid image quality, smart zoom and face detection technology for an exceptional video conferencing experience in HD 4K resolution. The RXVCam50's auto framing feature automatically adjusts the camera's zoom so that remote participants can clearly see everyone in the meeting room, with no user intervention required. Featuring:

- Zoom and framing can be manually controlled in case Auto framing feature is disabled.
- 4K camera High-quality CMOS sensor
- USB 3.0 type B offers for plug-and-play setup
- Auto Framing
- AI Face enhancement
- EPTZ
- Field of View: 120°
- 5x zoom

- Straightforward to mount and set to the desired angle

In case the customer already has a USB camera, it can be connected into the RXV100Hub instead of the AudioCodes camera.

RXV100 Audio Options

RXV100 offers three different options:

- RXV100Hub built in Dolby sound system – suitable for small-medium rooms
- RX50 (with or without expansion microphones) as an audio peripheral for the RXV100Hub – suitable for Medium to large rooms
- Support for existing customer audio solutions

RX50 Conference Phone and Peripheral Speaker

The AudioCodes RX50 Conference Phone can be used as a peripheral device. RX50 developed in partnership with Dolby®, delivers a superior meeting room experience with outstanding audio quality to support traditional voice conferencing in rooms of any shape or size. Packaged in a sleek, modern design, the RX50 is impressively easy-to-use, manage, and deploy. Featuring:

- **Full-room pickup:** If you can hear it in the room, the phone can hear it as well. Pickup range of 6 meters from the device.
- **Dynamic leveling:** RX50 continuously maps room sound to distinguish between talkers and noise, allowing it to filter out distractions (like simultaneous conversations, cross talk and other noise) while boosting the sound of quiet or distant voices so everyone can be heard.
- **Room flexibility**: RX50 captures the in-person sound of meeting rooms regardless of their shape or size. Even in rooms with echo, reverb or other challenges, audio from the phone sounds more natural and is easier to understand.

If additional Microphone pickup range is required (if the radius of the voice pickup is 6 meters), we can offer our Microphones extender AC-SAT-MIC which extends the range with a 1.5 radius per remote microphone. This microphone also includes a mute button.
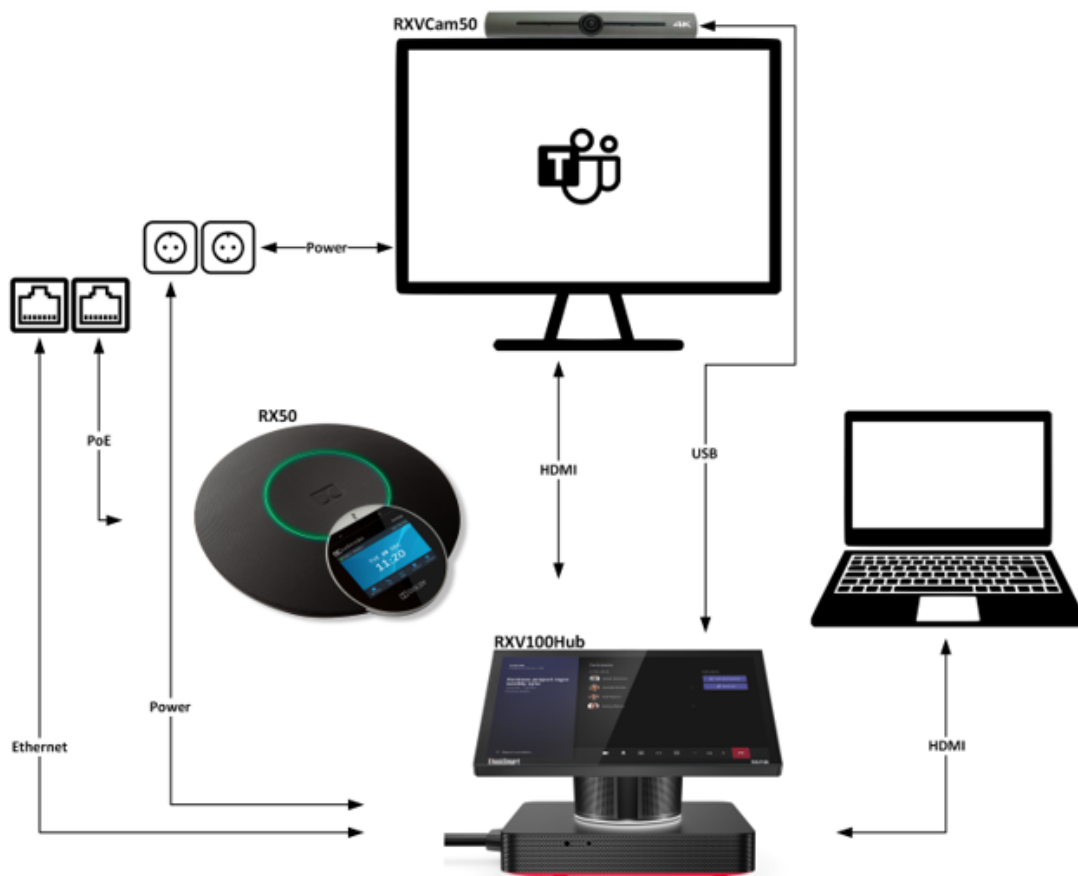
Bundled Elements Topology

The diagram below illustrates the connectivity topology of all your elements into the RXV100.

There is an option to connect a second TV via a second HDMI Out connector.

RXV100Hub includes HDMI-ingest connection to allow users to stream content into the TV and meeting.

The connectivity of RX50 and RXV100Hub is performed over IP Ethernet.

Specifications

RXV100Hub	RXV50Cam	RXV10Cam	RX50
ThinkSmart Hub Specifications **PROCESSOR** Intel Core™ i5-8365U vPro® **OPERATING SYSTEM** Windows® 10 IoT Enterprise SAC 64 bit **MEMORY** 8 GB (Dual-Channel) DDR4-2400 MHz **STORAGE** 128 GB PCIe TLC SSD **GRAPHICS** Intel UHD Graphics 620 **AUDIO** 4x premium-tuned speakers 4x omnidirectional mics for 360-degree audio capture **SENSORS** IR-based human proximity sensor **INDICATOR LIGHTS** LED status light on hinge and top of screen **SECURITY** TPM 2.0 Kensington™ MiniSaver lock slot ThinkSmart One Cable **connectivity** **INPUT PORT** 1x HDMI-In **USER ACCESSIBLE AND THINKSMART ONE CABLE PORTS** 2x HDMI-Out 1x RJ45 Gigabit Ethernet 3x USB-A 3.2 Gen 1 1x USB-C 3.2 Gen 1 1x 3.5 mm audio (on base) **WIFI** WLAN 802.11 AC (2 x 2) Bluetooth® Low Energy (LE) 5.0 **design** **DISPLAY** 10.1" touch screen (1920 x 1080 resolution, 320 nits) with 16:10 aspect ratio, 360-degree rotatable, anti-glare and smudge resistant **DIMENSIONS (W X D X H)** 240.0 x 200.0 x 185.3 mm 9.45 x 7.87 x 7.30 in **WEIGHT** 2.47 kg/5.45 lbs.	Image Sensor 1/2.5 inch high quality 4K CMOS sensor Effective Pixels 8.28MP, 16:9 Video Output USB3.0, Type B. Support for audio signal output. Video Resolution Main stream: 3840×2160 @30fps, 1920×1080P @30fps/25fps, 1280×720P@30fps/25fps Sub stream: 1280×720P @30fps/25fps, 640×480P @30fps/25fps, 320×172P @30fps/25fps Angle of View 126° (D) / 120°(H) / 85°(V) Focal Length f=2.72mm Iris F2.5 Minimum Illumination 0.1Lux (F1.8, AGC ON) Digital Zoom 4x DNR 2D & 3D DNR **USB** Operating System Windows 7 (1080P/720P), Windows 8.1, Windows 10, macOS™ 10.10 and above, Linux (UVC) Video Compression YUY2, MJPG, H.264, H.265 USB Protocol UVC, UAC Input Current PTZ control Hardware Request 2.4 GHz Intel Core 2 Duo processor or better, 2GB capacity or more, USB 2.0, input (USB3.0 for 4K) **Other Parameters** Input Voltage DC 5V Input Current 1A (Max) Power Consumption 5W (Max) Store Temperature -10°C~+60°C Store Humidity 20%~90% Working Temperature -10C°~+50°C Working Humidity 20%~80% Dimensions 220mm x 93.75mm x 56.5mm Application Indoor Accessories User manual, USB3.0 cable, remote controller	Image Sensor High-quality CMOS sensor Effective Pixels 2MP, 16:9 Video Compression MJPEG, YUV2, H.264, H.265 USB USB2.0 (for power and firmware upgrade) Compatibility Compatible with all unified communication platforms, applications and softphones, including Microsoft Teams, Skype for Business, Zoom, Cisco WebEx, Counterpath's Bria softphone, 3CX softphone, etc. Angle of View 88°(D) / 80°(H) / 50°(V) Focal Length f=3.24mm Video Resolution 960x540 / 320x180 / 432x240 / 640x360 / 800x448 / 800x600 / 864x480 / 960x720 / 1024x576 /1280x720 / 1600x896 / 1920x1080 / 272x144 / 368x208 / 384x216 / 480x272 / 624x352 / 912x512 / 424x240 / 640x480 / 320x240 / 160x120 / P30 Maximum Resolution 1920x1080 Maximum FPS 30fps Minimum Illumination 0.5Lux (F1.8, AGC ON) Video Adjustments Brightness / Resolution / Saturation / Contrast / Gain / Low-Light-Compensation adjustable SNR >50dB Input Voltage 5V Input Current 500mA (max) Power 2.5W (max) Temperature Storage Temperature: -10°C ~ +60°C Operating Temperature: -10°C ~ +50°C Humidity Storage Humidity: 20% ~ 95% Operating Humidity: 20% ~ 80% Cable Length 1.8 meters Dimensions 102mm x 46mm x 30mm Weight 0.15kg Compliance FCC, CE, RCM, IC	Supplementary features Call waiting, call hold, call transfer, conference call support, user presence, status changes, call park, Microsoft Exchange integration Audio features G.711µ/a, G.729A/B, G.722, AEC, wideband acoustic EC, PLC, silence suppression, VAD, adaptive jitter, 20 ft (6.1m) microphone pickup range,360 degrees audio capture, full duplex, noise suppression, Data protocols IPv4, TCP, UDP, ICMP, ARP, RTP, SRTP, RTCP-XR, 802.1x, static IP/DHCP IP assignment, IEEE 802.1p/Q, QoS/ToS, HTTP/HTTPS/DHCP, NTP, FTP/TFTP, ,CDP/LLDP VLAN configuration, SDES Security 802.1x, HTTPS, SIP over TLS and SRTP/SDES, configuration file encryption Language support English, German, French User interface Touch interface, 4.3 inch touch LCD display (480x272), external tactic keys, mute ,volume control Network and power Ethernet 10/100Base-T, IEEE 802.3af PoE (Class 3) EMC and safety UL60950-1, CAN/CSA C22.2, No. 60950-1, CE Mark, FCC Class B ICES-003 Class B, EN55022 Class B, EN300 328, EN55024 Environmental Operating temperature: 32-1040 F / 0-400 C Relative humidity: 20-85% (noncondensing) Storage temperature: -22-1310 F / -30-550 C Physical dimensions and weight HxWxD 2.2x11.8x12.6 inch (5.6x30x32 cm) Net weight: 4 lb (1.8kg) Satellite microphone kit (optional) Pickup range extended by up to 6.5 ft (2m) per mic, 2 microphones per kit

Obtaining Documentation and Software

If you have a maintenance and support agreement with AudioCodes, you can download the device's latest software version from AudioCodes' Services Portal at https://services.audiocodes.com (registered users only).

You can also download additional documentation relating to the device (such as the *User's Manual* and *Hardware Manual*) from AudioCodes' website at https://www.audiocodes.com/library/technical-documents?productFamilyGroup=1637&productGroup=1645.

Customer Support

Customer technical support and services are provided by AudioCodes or by an authorized AudioCodes Service Partner. For more information on how to buy technical support for AudioCodes products and for contact information, please visit AudioCodes website at https://www.audiocodes.com/services-support/maintenance-and-support.

About AudioCodes

AudioCodes Ltd. (NasdaqGS: AUDC) is a leading vendor of advanced voice networking and media processing solutions for the digital workplace. With a commitment to the human voice deeply embedded in its DNA, AudioCodes enables enterprises and service providers to build and operate all-IP voice networks for unified communications, contact centers and hosted business services. AudioCodes' wide range of innovative products, solutions and services are used by large multinational enterprises and leading tier one operators worldwide.

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