Nebula Networked AV™

Lighten every star

A
FOR STYLISH LIVING
aavara ®

BYOM/Conference Room AV
Commercial / Digital Signage AV
Seamless Cross Display KVM
Residential AV

Eco-Efficient AV

Dante®

AES67

USB C Port
DP Alt. Mode

AV over IP

4K60
4:4:4 HDR

PB9700
USB C (DP Alt. Mode) / HDMI 4K HDR Input Support

Eco-Efficient AV

4K60Hz 4:4:4 Over 1G
36bit Deep Color Multi HDR
Seamless Cross Display KVM
Dynamic VideoWall
HDMI / DisplayPort (USB C) Input | Sender

4K60Hz 4:4:4 Over IP
36bit Deep Color HDR
Seamless Cross Display KVM
Dynamic VideoWall | Receiver

Dante **AES67** **USB C Port** DP Alt. Mode **AV over IP** **4K60 4:4:4 HDR**

Way to Control

- AV Master Web Control
- 3rd Party Controller Integration
- Keyboard HotKeys Control

- **AV Matrix**
- **VideoWall**
- **USB IP KVM**
- **HDR**
- **HDCP 2.2**
- **Audio Over IP**

- 4K60Hz 4:4:4 Video and Audio Over Inexpensive 1 Gbps Ethernet Network
- 36-bit color video engine support all HDR formats including Dolby Vision, HLG, HDR10+
- Ultra Low Latency Mode 4K60Hz video pass-thru below 4ms
- Dante/AES67 Audio Bridge In/Out interoperability with other audio equipment
- HDMI/USB-C auto detect/manual switch dual inputs on Sender. USB C support both DP Alt. Mode and USB 2.0 Link w/ just One cable
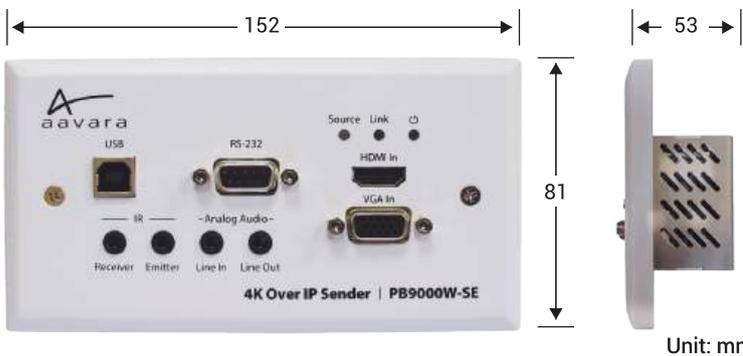
- US...
  mo...
- Up...
- HD...
- Gre...
- Sea...
- Vic...
  con...
- Po...
- Eas...
  CS...

Dante / AES67 Model	Sender/Tx: P...
AES67 Only Model	Sender/T...

aavara
FOR STYLISH LIVING

4K OVER IP

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

PB9000W-SE

4K Over IP Wall Plate Sender

Eco-Efficient AV

EU 2 Gang Form Factor
- PoE Powered (802.3af standard)
- HDMI Video Input up to 4K@60Hz 4:2:0 /4K30Hz 4:4:4 HDR
- HDMI Audio up to 7.1ch LPCM/dts/Dolby ATMOS
- Dual Inputs: 1 x HDMI, 1 x VGA with 3.5mm Analog Audio
- IR Control: IR Emitter x 1, IR Receiver x 1
- Serial Control: RS232 (DB-9) x 1
- USB Pass-Thru: USB (Type B) x 1
- RJ45 Ethernet Port with Integrated PoE (802.3af)

Unit: mm

PB9000-SE+H

4K Over IP Sender w/ HDMI Loop out, & S/PDIF TOSLINK Out

Inherits all PB9000 features with the following enhancements:

HDMI Loopout   **S/PDIF Out**

- **HDMI Loop out**
  Supports local monitoring or AV Receiver connection, with pass-through for up to 4K video and Dolby Atmos/DTS:X audio.

- **Standalone S/PDIF TOSLINK Fiber Optics audio output**
  Supports up to Dolby Digital (AC3). Ideal for connecting local video sources to nearby AV Receivers.
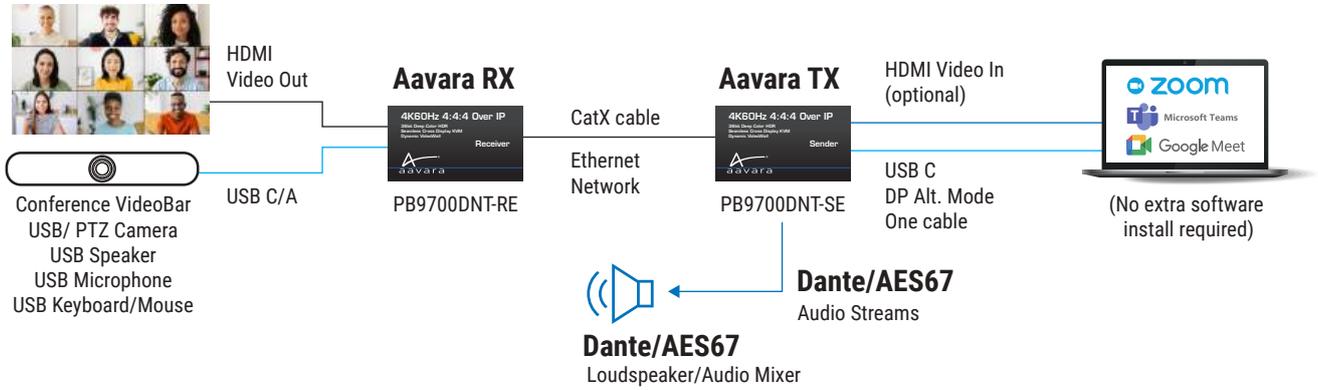
PB9000-RE

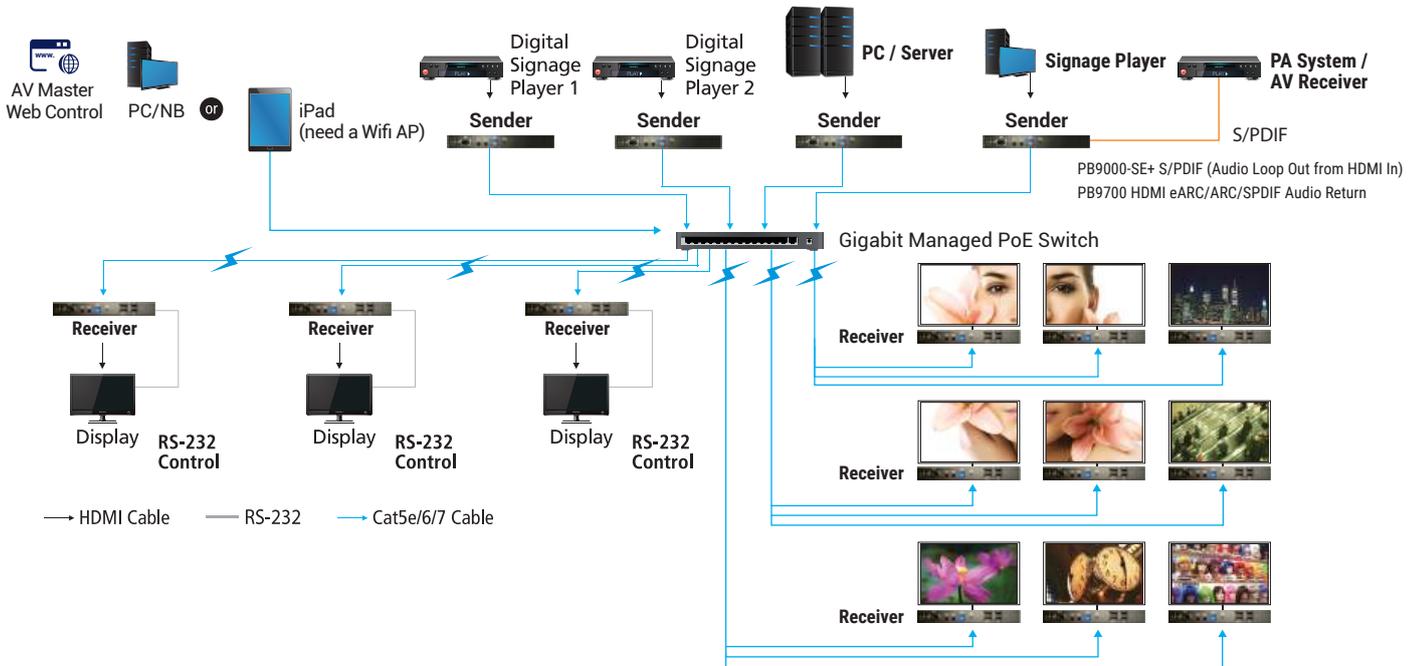### 4K Over IP Receiver w/ Video Scaler

- Built-in Video Scaler for 1080p to 4K Up/Downscaling
- Independent Matrix Routing for Video, Audio, IR, RS232, USB
- Seamless Cross Display KVM Switching w/ USB 2.0 Pass-Thru
- CEC/IR/RS232 Control Signal Pass-Thru & IP Command
- Easy Video Wall Setup & Flexible Management via Web Interface
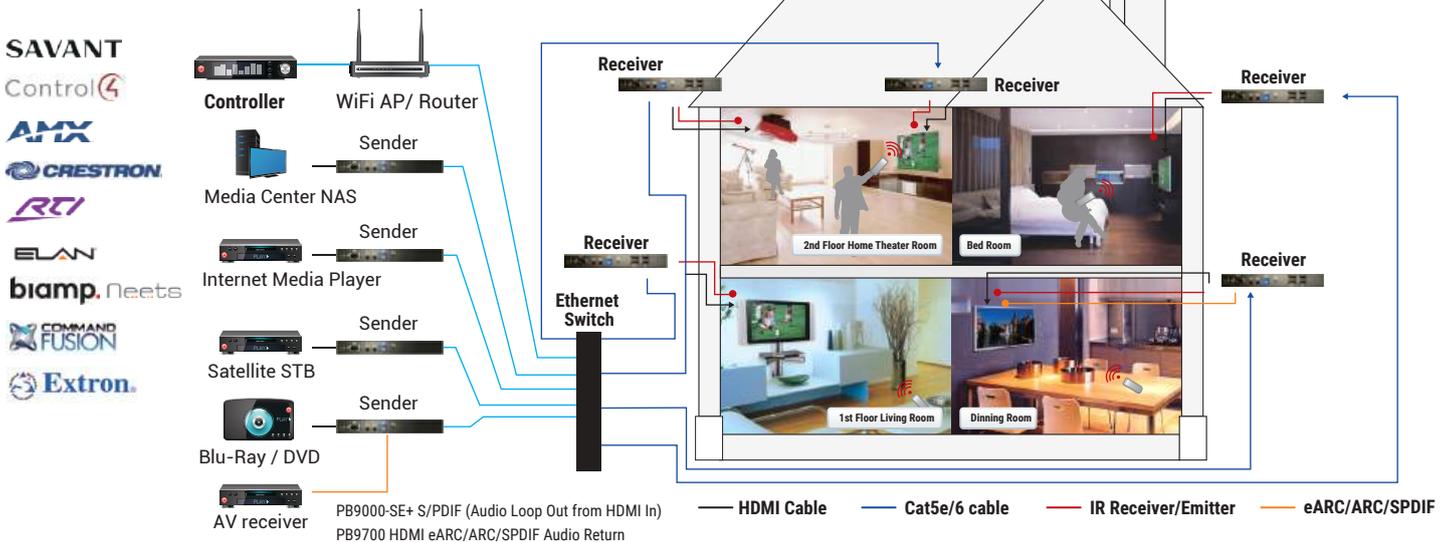- Keyboard Hotkeys Control
- Video Snapshot

BYOM Ready by One USB-C. Connect, Present, and Collaborate Instantly.

HDMI Video Out

Conference VideoBar
USB/ PTZ Camera
USB Speaker
USB Microphone
USB Keyboard/Mouse

USB C/A

Aavara RX

4K60Hz 4:4:4 Over IP
28bit Deep Color HDR
Seamless Cross Display KVM
Dynamic VideoWall   Receiver

PB9700DNT-RE

CatX cable

Ethernet Network

Aavara TX

4K60Hz 4:4:4 Over IP
28bit Deep Color HDR
Seamless Cross Display KVM
Dynamic VideoWall   Sender

PB9700DNT-SE

HDMI Video In (optional)

USB C
DP Alt. Mode
One cable

ZOOM
Microsoft Teams
Google Meet

(No extra software install required)

Dante/AES67
Audio Streams

Dante/AES67
Loudspeaker/Audio Mixer

Scalable & Flexible Digital Signage/Meeting Room/VideoWall

AV Master Web Control

PC/NB or iPad (need a Wifi AP)

Digital Signage Player 1
Sender

Digital Signage Player 2
Sender

PC / Server
Sender

Signage Player
Sender

PA System / AV Receiver

S/PDIF

PB9000-SE+ S/PDIF (Audio Loop Out from HDMI In)
PB9700 HDMI eARC/ARC/SPDIF Audio Return

Gigabit Managed PoE Switch

Receiver
Display **RS-232 Control**

Receiver
Display **RS-232 Control**

Receiver
Display **RS-232 Control**

Receiver

Receiver

Receiver

→ HDMI Cable   — RS-232   — Cat5e/6/7 Cable

Residential AV Matrix

SAVANT
Control4
AMX
CRESTRON
RTI
ELAN
biamp. Neets
COMMAND FUSION
Extron

Controller

WiFi AP/ Router

Media Center NAS   **Sender**

Internet Media Player   **Sender**

Satellite STB   **Sender**

Blu-Ray / DVD   **Sender**

AV receiver

PB9000-SE+ S/PDIF (Audio Loop Out from HDMI In)
PB9700 HDMI eARC/ARC/SPDIF Audio Return

Ethernet Switch

Receiver
Receiver

Receiver

Receiver

Receiver

2nd Floor Home Theater Room   Bed Room

1st Floor Living Room   Dinning Room

— HDMI Cable   — Cat5e/6 cable   — IR Receiver/Emitter   — eARC/ARC/SPDIF

Aavara AV Master Web Control
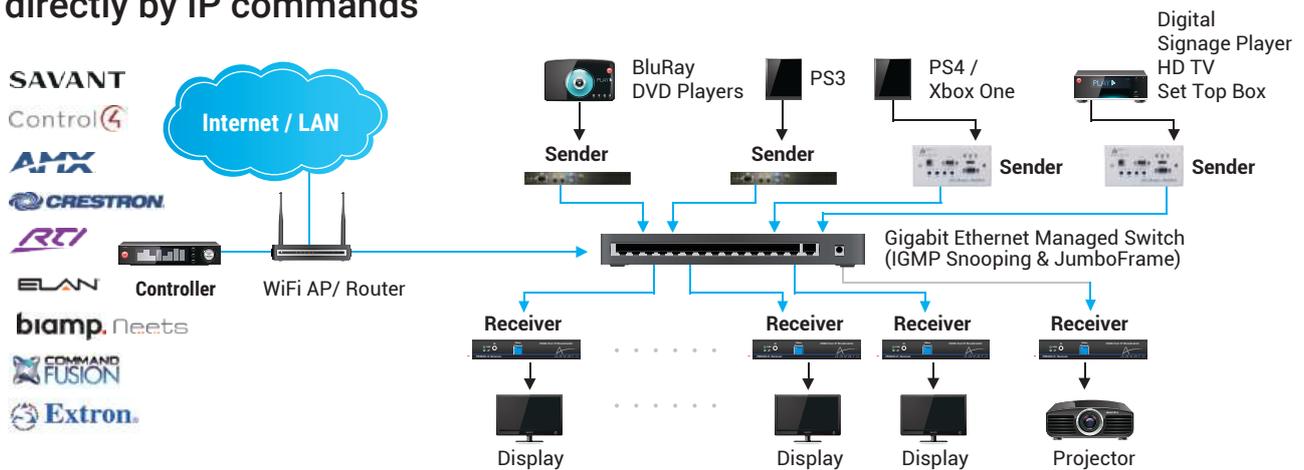
Aavara AVoIP API

Dante Managed API

3 Party Controller Driver

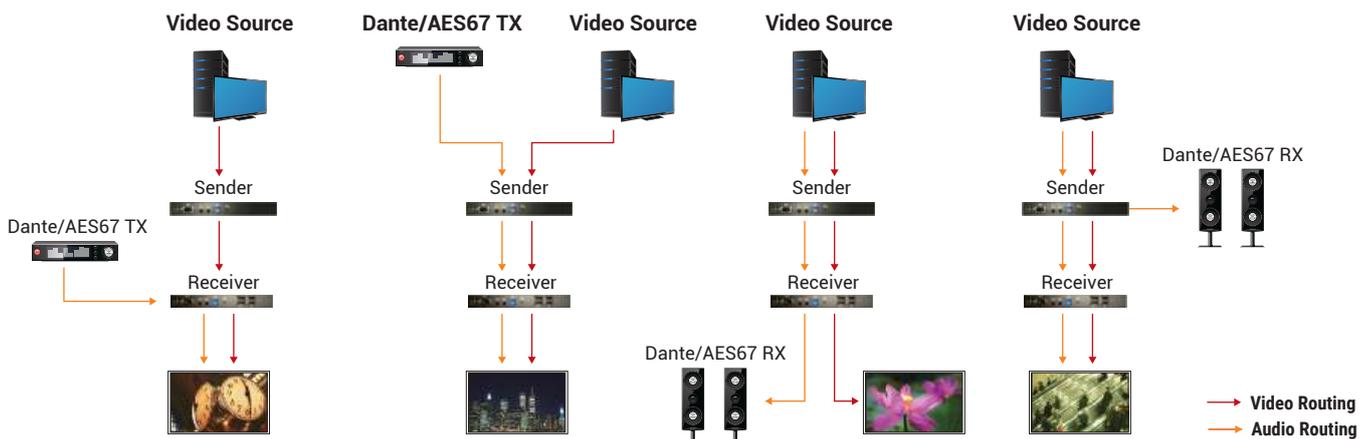**STREAM DECK**

3rd party Controller integration

Controller driver provided, allowing controller to control Aavara Box directly by IP commands

SAVANT
Control4
AMX
CRESTRON
RTI
ELAN
biamp. Neets
COMMAND FUSION
Extron

Internet / LAN

Controller

WiFi AP/ Router

BluRay DVD Players

PS3

PS4 / Xbox One

Digital Signage Player HD TV Set Top Box

Sender

Sender

Sender

Sender

Gigabit Ethernet Managed Switch (IGMP Snooping & JumboFrame)

Receiver

Receiver

Receiver

Receiver

Display

Display

Display

Projector

Dante∗/AES67 Audio Over IP

Video Source

Dante/AES67 TX

Video Source

Video Source

Video Source

Sender

Sender

Sender

Sender

Dante/AES67 TX

Dante/AES67 RX

Receiver

Receiver
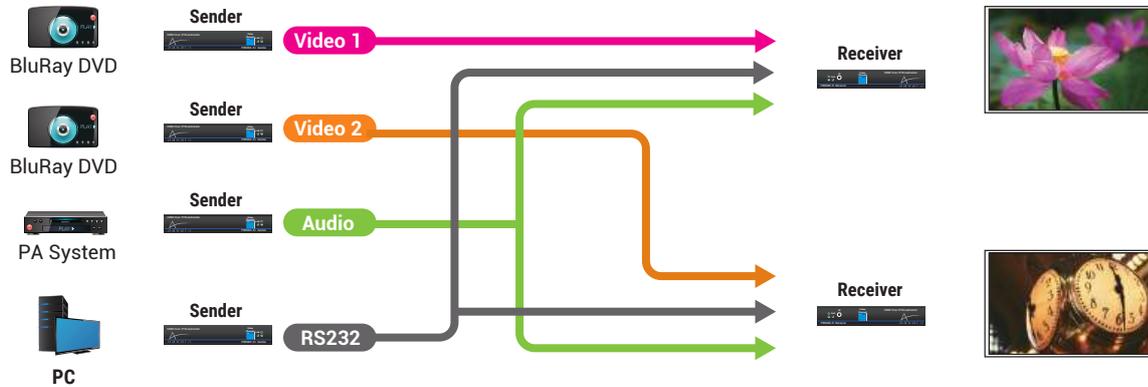
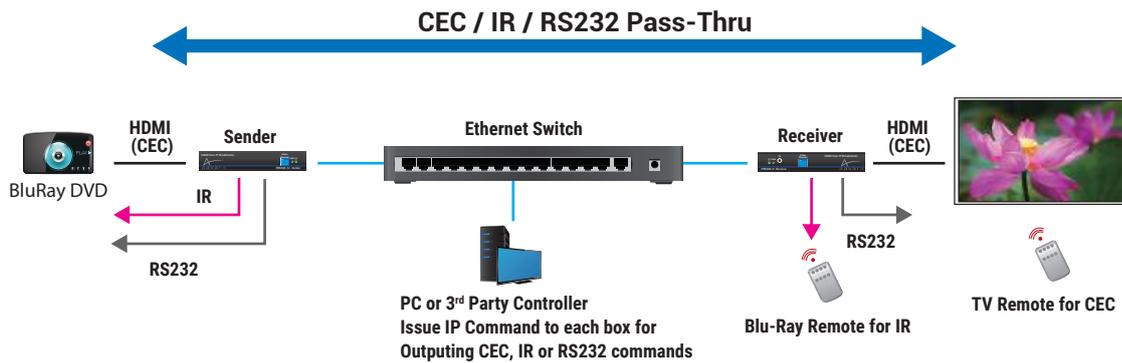Receiver

Receiver

Dante/AES67 RX

→ **Video Routing**

→ **Audio Routing**

∗ Dante feature on selected PB9700 models only.

Independent Matrix Routing for Each Service

(Video, Audio, RS232, IR and USB)

BluRay DVD — **Sender** — Video 1 → **Receiver**

BluRay DVD — **Sender** — Video 2

PA System — **Sender** — Audio

PC — **Sender** — RS232 → **Receiver**

CEC / IR / RS232 Over IP

CEC / IR / RS232 Pass-Thru

BluRay DVD — HDMI (CEC) — **Sender** — IR / RS232 — **Ethernet Switch** — **Receiver** — HDMI (CEC)

RS232

PC or 3rd Party Controller
Issue IP Command to each box for
Outputing CEC, IR or RS232 commands

Blu-Ray Remote for IR

TV Remote for CEC

Seamless Cross Display KVM

Server/PC 1 — **Sender**

Server/PC 2 — **Sender**

Server/PC 3 — **Sender**

Server/PC 4 — **Sender**

Ethernet Switch

Receiver — **Receiver**

| Server/PC 1 | Server/PC 2 |
| Server/PC 3 | Server/PC 4 |

Receiver — **Receiver**

*Up to 17 Computers/Monitors

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