Nebula Networked AV™
Lighten every star

aavara
FOR STYLISH LIVING

Commercial AV • Conference Room AV
Seamless Cross Display KVM • Residential AV

Entregado a
la Excelencia

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

PB9700

4K Dolby Vision HDR HDMI, DisplayPort(USB-C DP Alt. Mode) Input Support

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
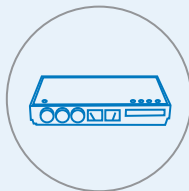
3rd Party Controller Integration

Keyboard HotKeys Control

AV Matrix

VideoWall

USB IP KVM

HDR

HDCP 2.2

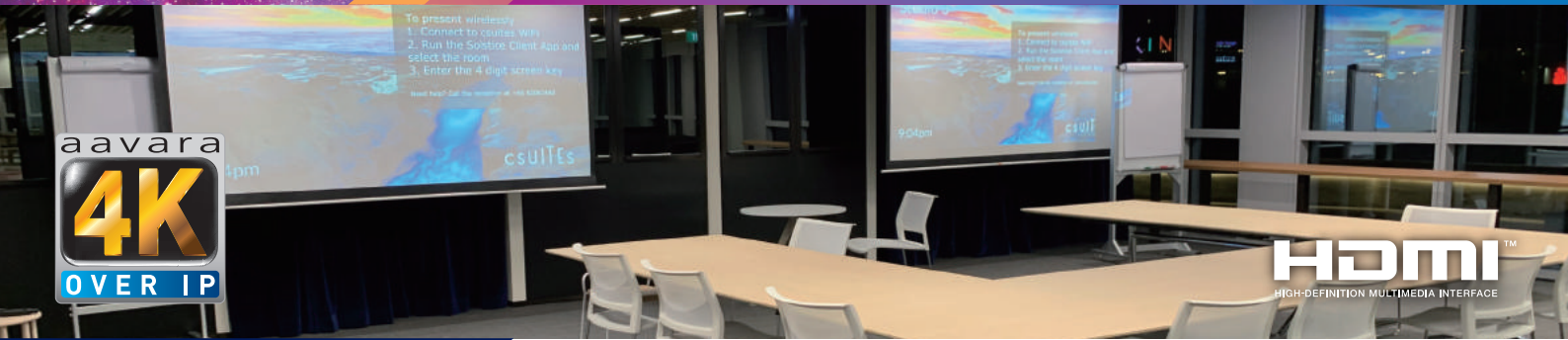**Audio Over IP**

- 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 Latnecy 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

- USB-C/A ports on Receiver supports keyboard, mouse, USB drive, webcam & touchscreen
- Upscale/Downscale Video to fit display requirement
- HDMI eARC, ARC & S/PDIF Audio Return support
- Great Video Wall, Matrix and KVM Versatility
- Seamless Cross Multiple Displays KVM Switching
- Video Sub-Stream for viewing video snapshot on connected iPad/Tablet/Notebook
- Powerful Centralized Web Interface Management
- Easy Large Matrix/VideoWall Configuration with CSV File managed by MS Excel

Dante / AES67 Model	Sender/Tx: PB9700DNT-SE, Receiver/Rx: PB9700DNT-RE
AES67 Only Model	Sender/Tx: PB9700-SE, Receiver/Rx: PB9700-RE

aavara **4K OVER IP**

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

PB9000W-SE

4K Over IP Wall Plate Sender

EU 2 Gang Form Factor
- Power from POE
- 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
- Video/Audio Input: HDMI x 1, VGA x 1 (w/ Analog Audio 3.5mm jack)
- 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
- Ethernet RJ45 Connector w/ 802.3af PoE

Unit: mm

PB9000-SE+H

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

With PB9000 all existing features and functions, adding following new features:

- **HDMI Loop out**
  For local Monitor/TV or AV Receiver connection, up to 4K video and Dolby ATMOS/DTS X audio output.

- **Standalone S/PDIF TOSLINK Fiber Optics audio output**
  Support up to Dolby Digital (AC3) output. Optimized for Video source and AV Receiver nearby.

HDMI Loopout   S/PDIF Out

PB9000HD-SE

1080p Over IP Sender that work with PB9000

Work with PB9000 and Up Scale 1080p Video Source input to 4K output w/ PB9000-RE Receiver Support

- HDMI Input: Up to 1080p 60Hz 4:4:4 HDR Video, 7.1ch LPCM/Dolby/DTS Audio
- Video Input: Up to 1920x1200@60Hz(DVI), 1920x1080@60Hz(VGA)
- USB 2.0 Pass-Thru for KVM Application
- Two Ways IR/RS232/CEC pass-Thru and IP commands

PB9000-RE
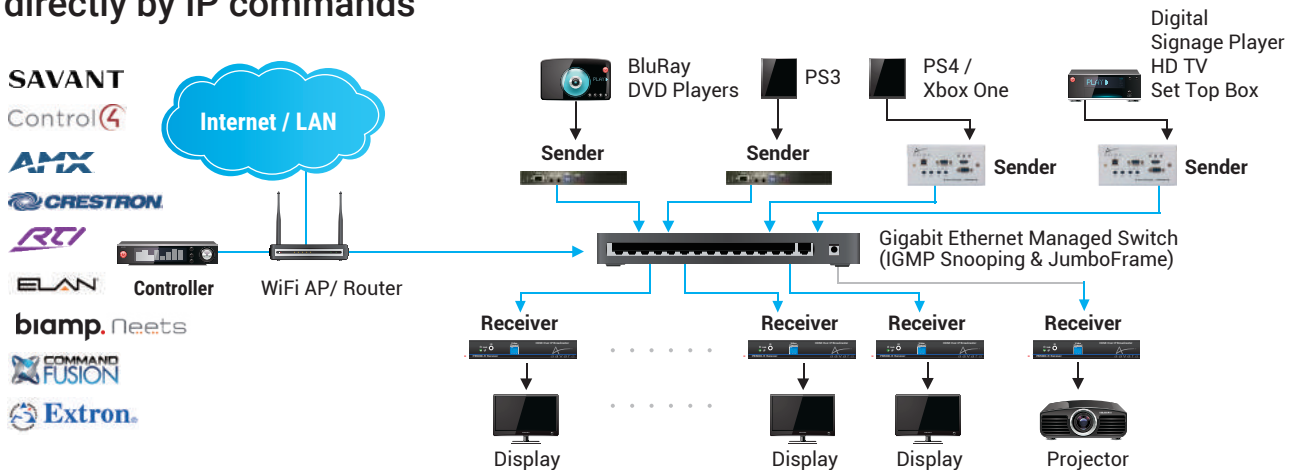
4K Over IP Receiver w/ Video Scaler

- Built-in Video Scaler for Up/Down Scale 1080p <-> 4K Video Output
- 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
- VideoWall Easy Setup & Flexible Operate by Easy Web Interface
- Keyboard Hotkeys Control
- Video Snapshot

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

Aavara AV Master Web Control

Built-in in box without additional cost, just one Web page can centralize control entire AV Matrix and VideoWall

- Auto Search All Senders & Receivers
- Video Snapshot on Both Input and Output
- Multi User Management
- Drag and Drop Matrix / VideoWall Control
- Video Snapshot
- Display/Device Control(CEC/IR/RS232)
- Customize EDID Upload
- Setup by CSV files Upload/ Download

IR Remote
Video Channel Control

Optional 16 channel IR remote for PB9000-RE receiver only. User can use Universal IR Remote for controlling Over IP Receiver and Video Source with ONE remote. Ideal for home or small commercial installation.

Keyboard Hotkeys Control

Just plug-in an USB Keyboard at Receiver's USB port. User can use Keyboard Hotkeys to switch Receiver quickly. Ideal for IP KVM application.

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Residential AV Matrix
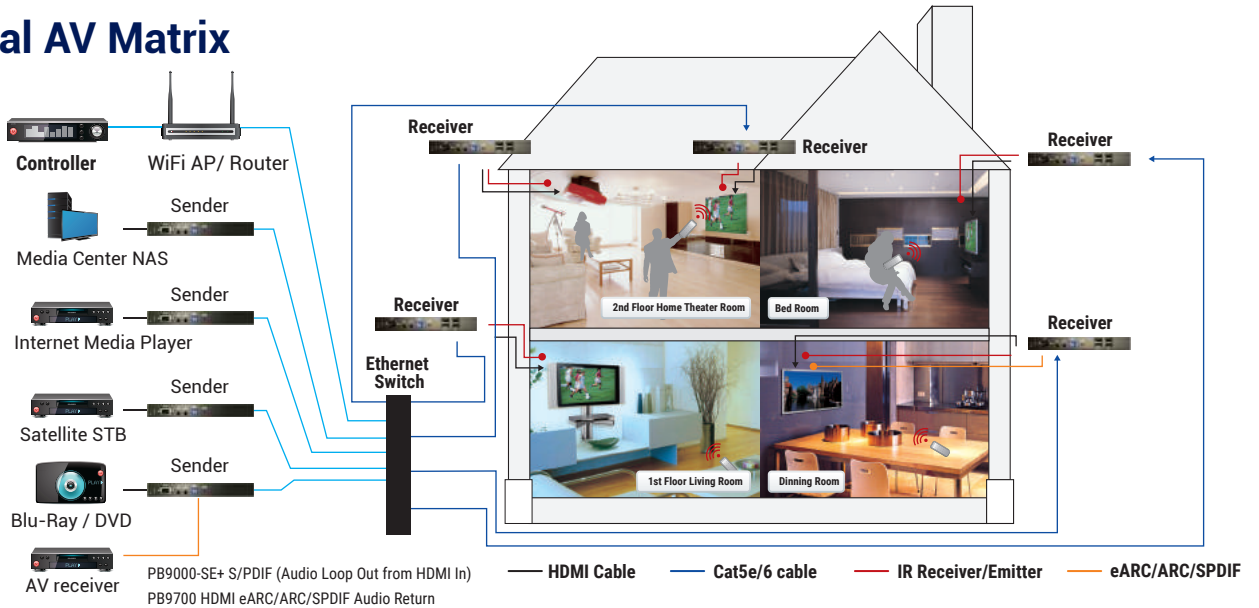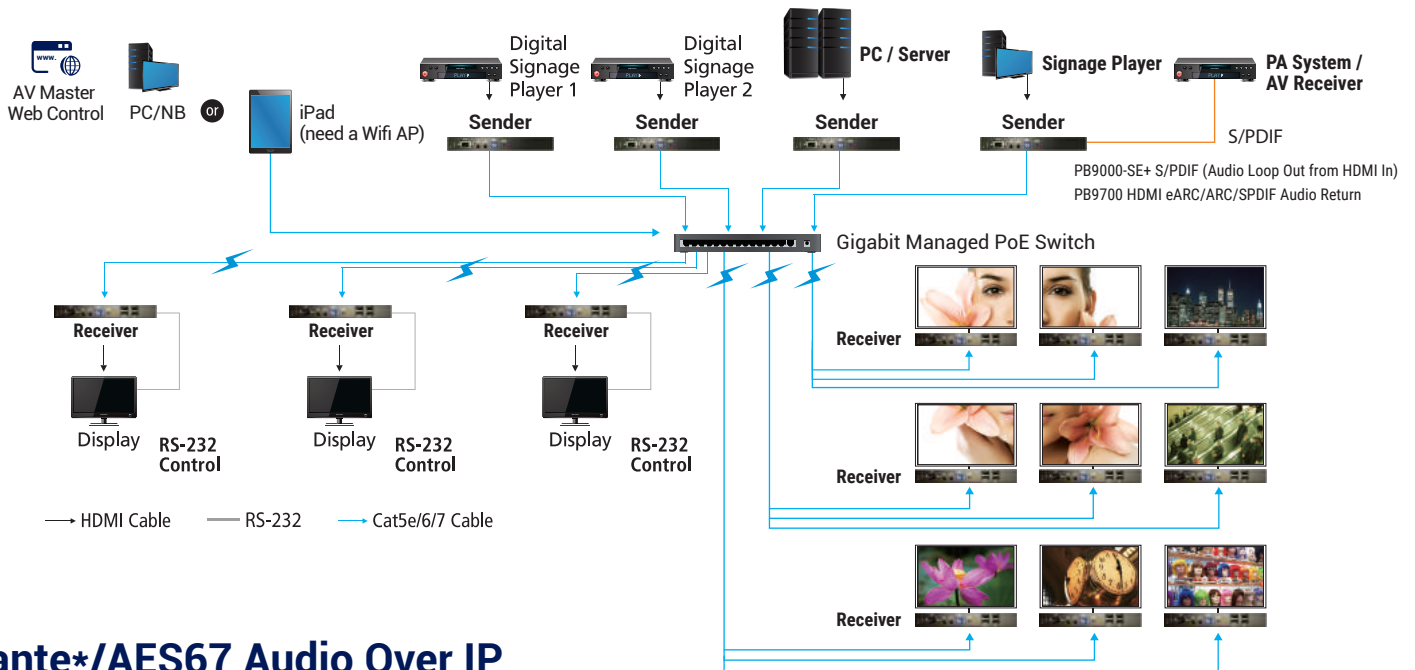
SAVANT
Control4
AMX
CRESTRON
RTI
ELAN
biamp. neets
COMMAND FUSION
Extron

Controller
WiFi AP/ Router

Media Center NAS — Sender
Internet Media Player — Sender
Satellite STB — Sender
Blu-Ray / DVD — Sender
AV receiver

Ethernet Switch

Receiver
Receiver
Receiver
Receiver
Receiver

2nd Floor Home Theater Room
Bed Room
1st Floor Living Room
Dinning Room

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

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

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

Dante*/AES67 Audio Over IP

Video Source
Dante/AES67 TX
Video Source
Video Source
Video Source

Dante/AES67 TX
Sender
Receiver

Sender
Receiver

Sender
Receiver

Dante/AES67 RX

Sender
Receiver

Dante/AES67 RX

→ **Video Routing**
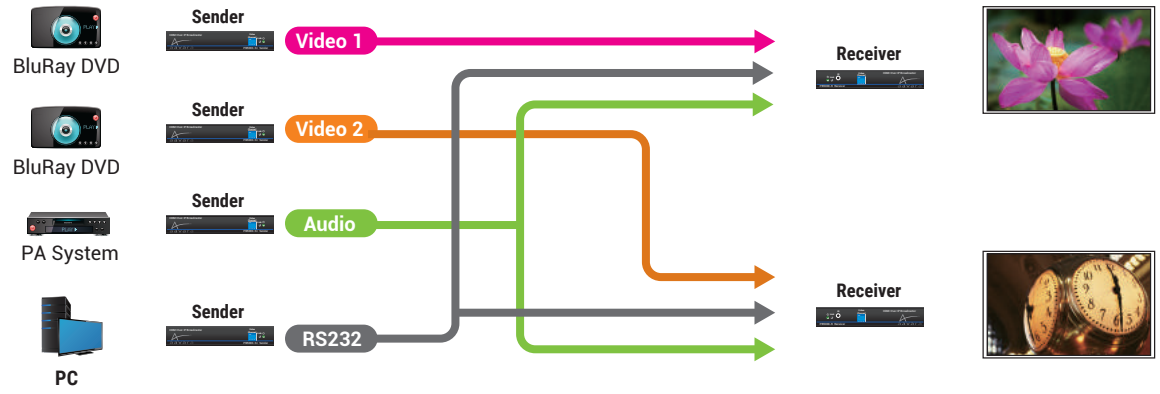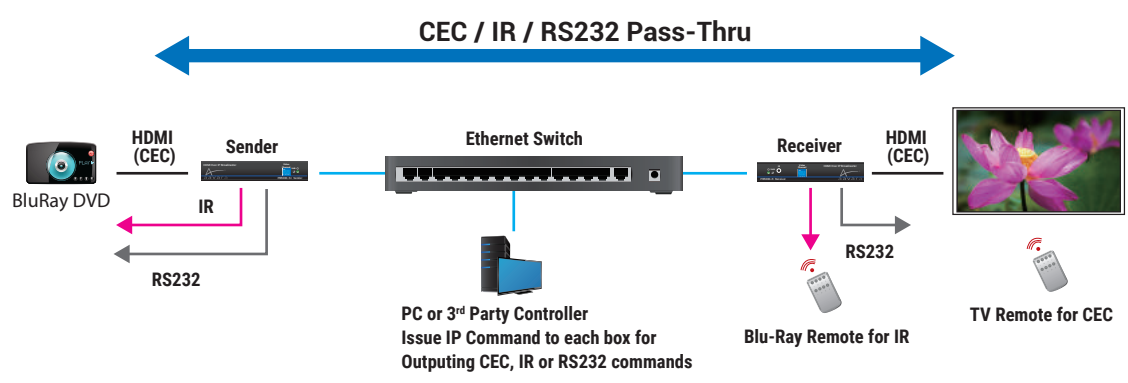→ **Audio Routing**
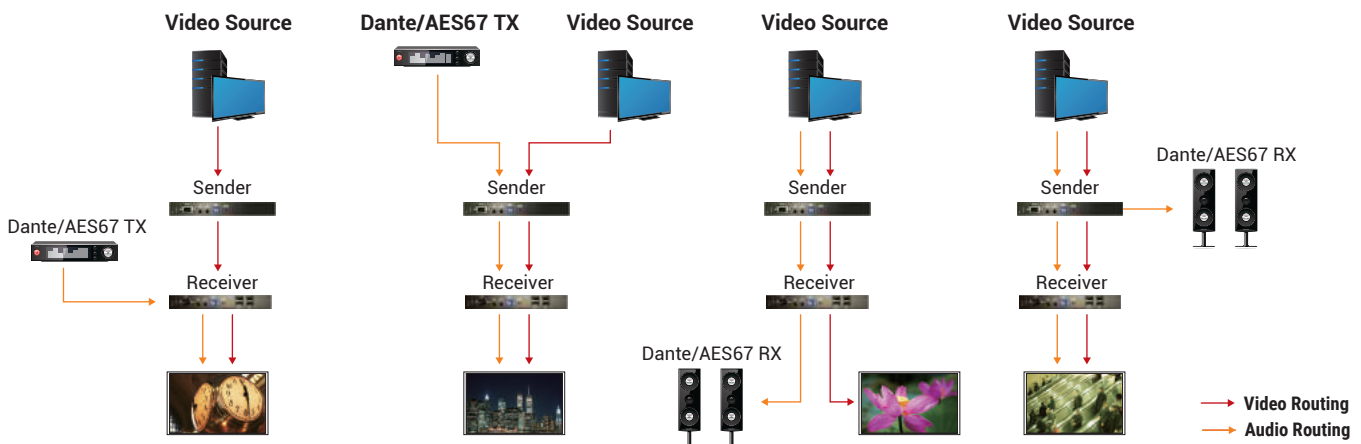
* Dante feature on selected PB9700 models only.

Independent Matrix Routing for Each Service

(Video, Audio, RS232, IR and USB)

Sender
BluRay DVD
Video 1

Sender
BluRay DVD
Video 2

Sender
PA System
Audio

Sender
PC
RS232

Receiver

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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Designed and Manufactured in Taiwan.
High Quality Guaranteeed.