Aavara AV Over IP™

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

Entregado a
la Excelencia

Residential AV Matrix
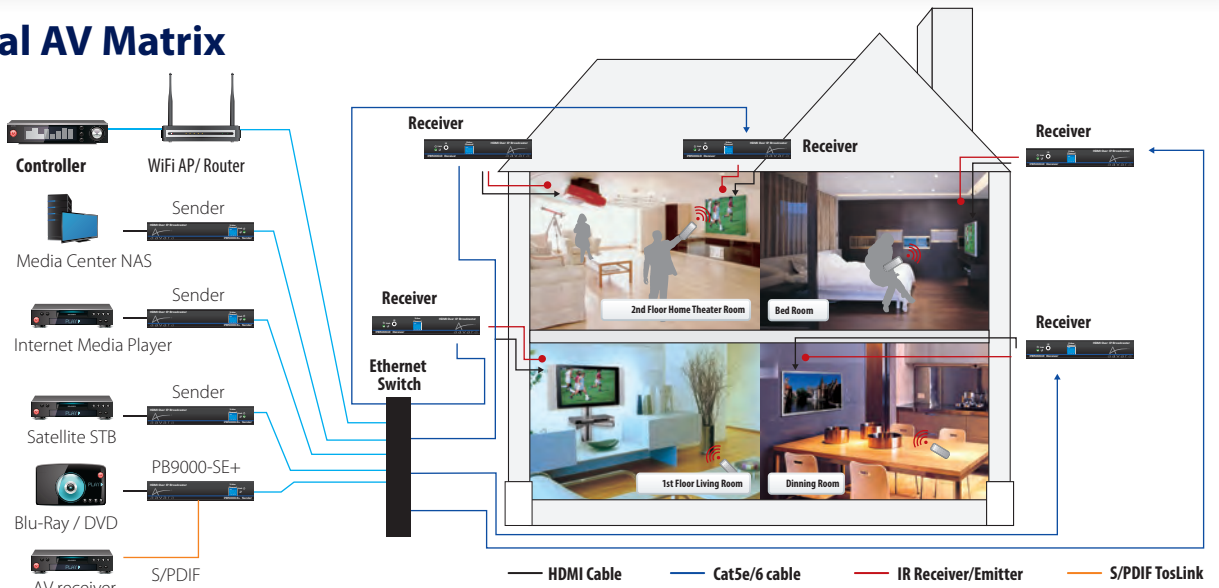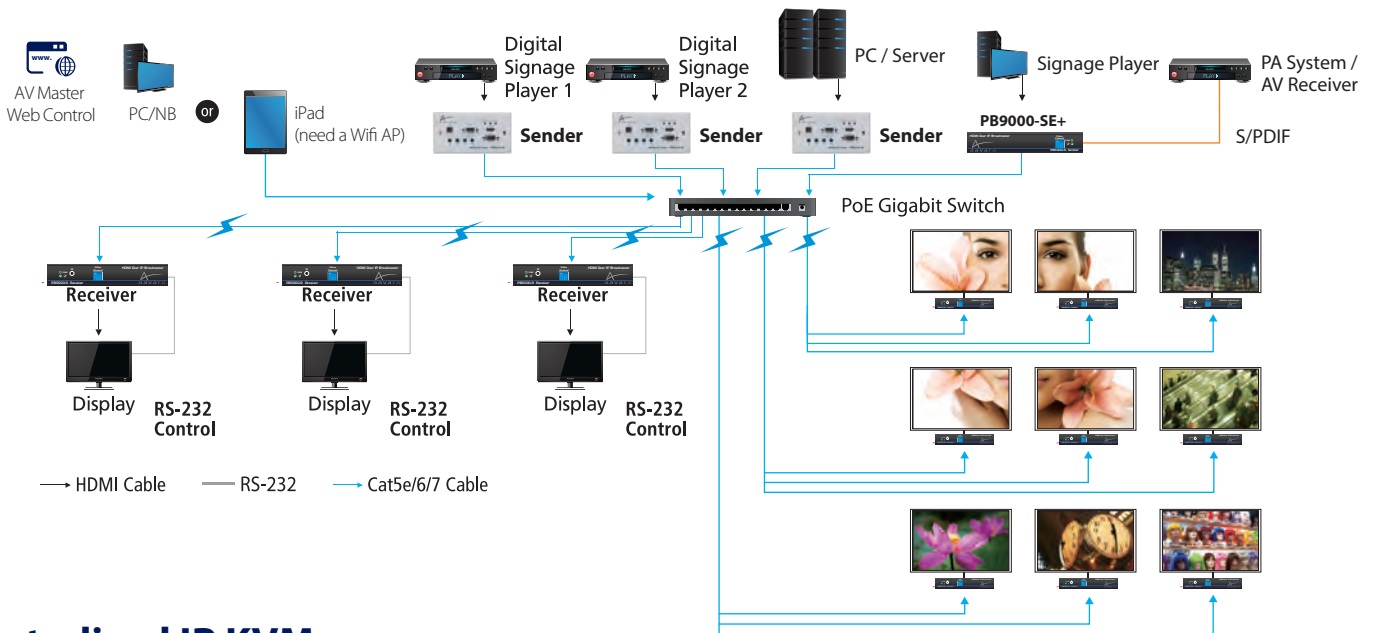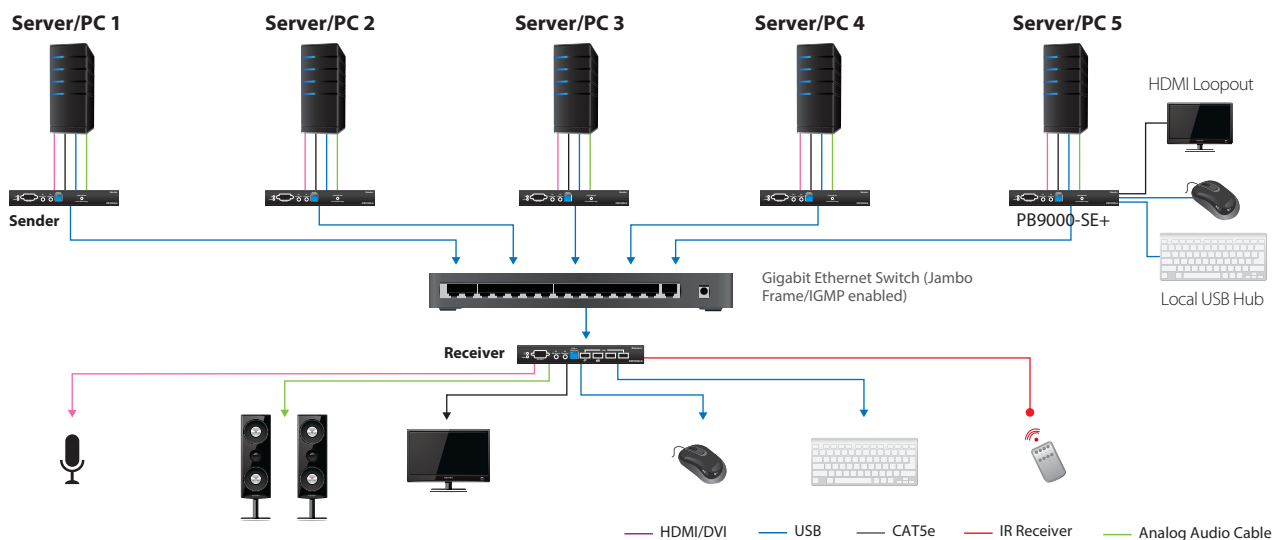
SAVANT
Control4
AMX
CRESTRON
RTi
ELAN
Neets
COMMAND FUSION
Extron

Controller
WiFi AP/ Router
Sender
Media Center NAS
Sender
Internet Media Player
Sender
Satellite STB
PB9000-SE+
Blu-Ray / DVD
S/PDIF
AV receiver

Receiver
Receiver
Receiver
Receiver
Receiver
Ethernet Switch

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

— HDMI Cable   — Cat5e/6 cable   — IR Receiver/Emitter   — S/PDIF TosLink

Scalable & Flexible Digital Signage/Meeting Room/VideoWall

AV Master Web Control
PC/NB   or   iPad (need a Wifi AP)

Digital Signage Player 1
Digital Signage Player 2
PC / Server
Signage Player
PA System / AV Receiver

Sender   Sender   Sender
PB9000-SE+
S/PDIF

PoE Gigabit Switch

Receiver   Receiver   Receiver

Display   Display   Display
RS-232 Control   RS-232 Control   RS-232 Control

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

Centralized IP KVM

Server/PC 1   Server/PC 2   Server/PC 3   Server/PC 4   Server/PC 5

HDMI Loopout

Sender
PB9000-SE+
Local USB Hub

Gigabit Ethernet Switch (Jambo Frame/IGMP enabled)

Receiver

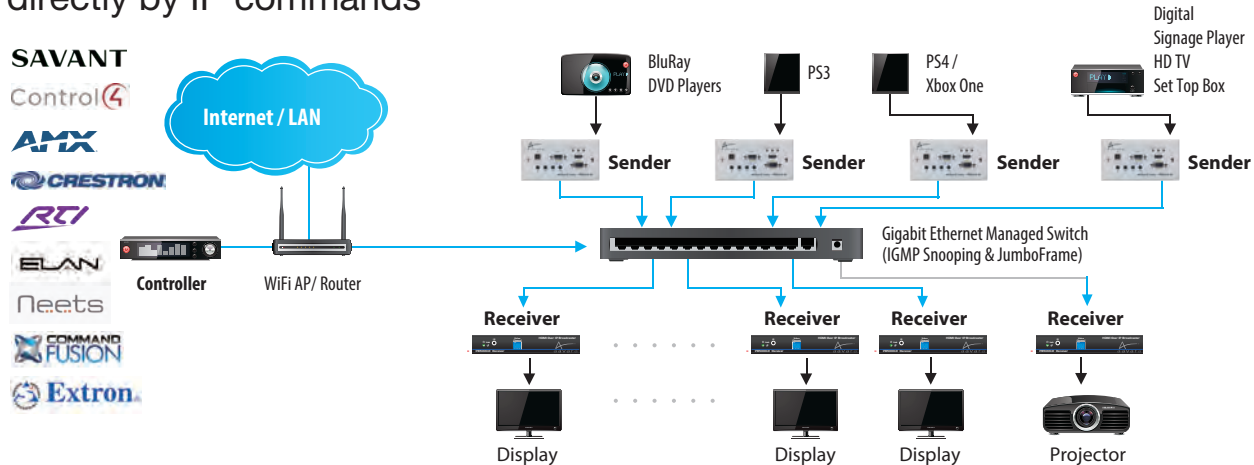— HDMI/DVI   — USB   — CAT5e   — IR Receiver   — Analog Audio Cable

## 3rd party Controller integration

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

SAVANT
Control4
AMX
CRESTRON
RTI
ELAN
Neets
COMMAND FUSION
Extron

Internet / LAN

BluRay DVD Players
PS3
PS4 / Xbox One
Digital Signage Player HD TV Set Top Box

Sender   Sender   Sender   Sender

Controller   WiFi AP/ Router

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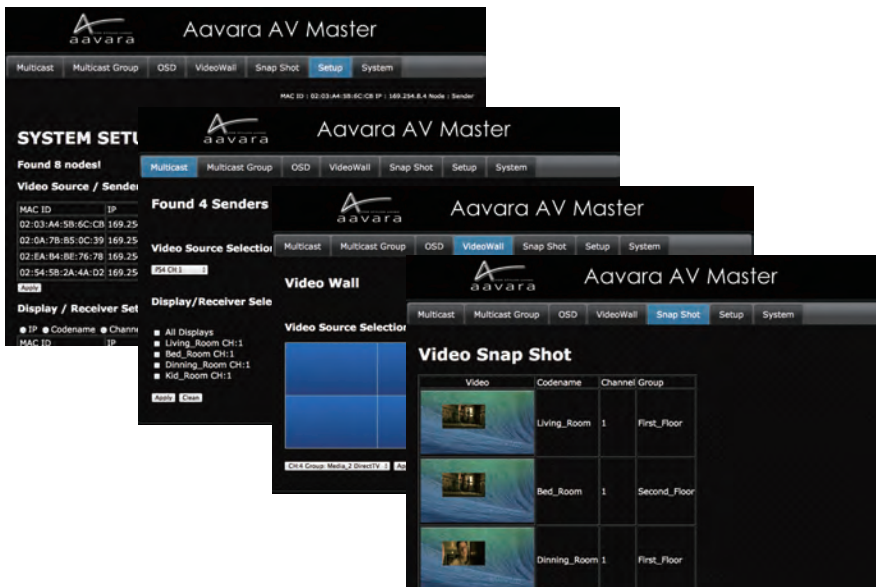
- Auto Search All Senders & Receivers
- Video Snapshot on Both Input and Output
- Multi User Management
- Drag and Drop Matrix / VideoWall Control
- Video Snapshot
- Display/Device Control(CEC/IR/RS232)
- Customize EDID Upload
- Setup by CSV files Upload/ Download

IR Remote
Video Channel Control

A 16 channels IR remote included in PB9000 receiver. 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 PB9000 Receiver's USB port. User can use Keyboard Hotkeys to switch Receiver quickly. Ideal for IP KVM application.

PB9000

4K HDMI HDCP 2.2 HDR Video, Multi-Channel Audio, Ultra Low Latency, Hybrid Video Out, VideoWall, USB 2.0 KVM, SFP Fiber Optical

4K 30Hz 4:4:4 Pass-Thru

aavara
4K
OVER IP

AV Matrix	VideoWall	USB IP KVM	HDR	HDCP 2.2

Way to Control

AV Master Web Control

3rd Party Controller Integration

Keyboard HotKeys Control

IR Remote Control

- 4K 30Hz 4:4:4 Pass-Thru
- Up To HDMI 2.0 4K 2160p60hz 4:2:0 Video Input
- HDR Video Format Support
- Ultra Low Latency 16~33ms
- Up To 7.2 CH Audio Or More (LPCM/dts/DOLBY/DOLBY ATMOS)
- USB 2.0 Pass-thru
- Asymmetric or Symmetric VideoWall Up to 4K Resolution
- Hybrid Video Output: Different Video Format At Each Receiver
- Video Rotation 0, 90, 180, 270 Degree, Mirrorring
- HDMI Audio Extract To Analog Output (2 Channel LPCM Audio)
- Max. Bit Rate Control (10 Mbps ~ 850 Mbps)
- Video Snap Shot (Video Capture)
- HDCP 2.2 Support (For 4k Blu-ray & Video Streaming)
- Customized EDID Upload/EDID Copy Enhance Compatibility
- Both RJ45 & SFP Fiber Optical For Meters Or KMs Point To Point Connection
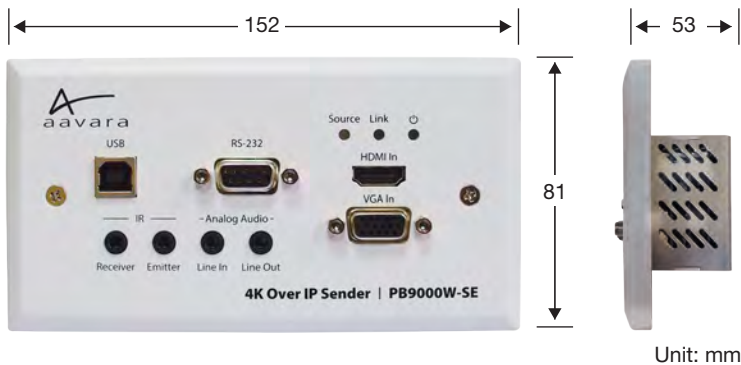- PoE 802.3af Support

Asymmetric VideoWall

Symmetric VideoWall

			1
			2
			3
7	6	5	4

aavara
FOR STYLISH LIVING

NEW PRODUCT
SATISFACTION GUARANTEE
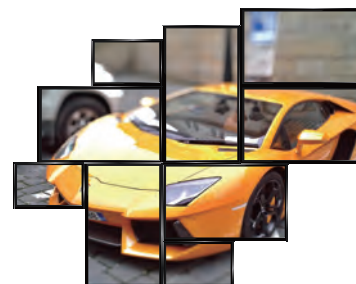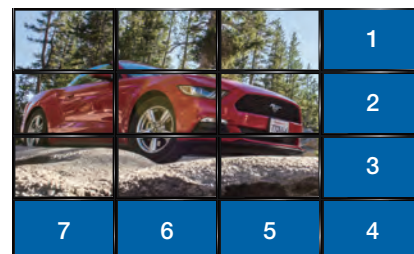
PB9000W-SE

4K Over IP Wall Plate Sender

152 | 53 | 81

Unit: mm

PB9000-SE in Wall Plate Format 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

Input/Output Connector:
- 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

PB9000-SE+

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

HDMI In
S/PDIF TOSLINK
HDMI Loop 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. Extra HDMI Splitter not needed.

- **Standalone S/PDIF TOSLINK Fiber Optics audio output**

  Support up to Dolby Digital (AC3) and DTS 5.1 output. Optimised for Video source and AV Receiver installed on Rack, or this two placed together.

HDMI Loopout   **S/PDIF Out**

PB9000HD-SE
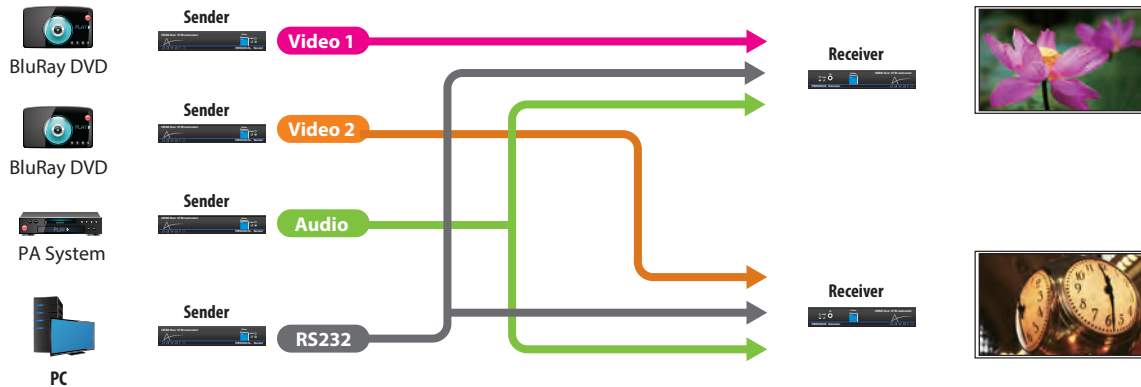
1080p Over IP Sender that work with PB9000

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
- DVI Input: Up to 1920x1200@60Hz
- VGA Input: Up to 1920x1080@60Hz
- USB 2.0 Pass-Thru for KVM Application
- Two Ways IR/RS232/CEC pass-Thru and IP commands
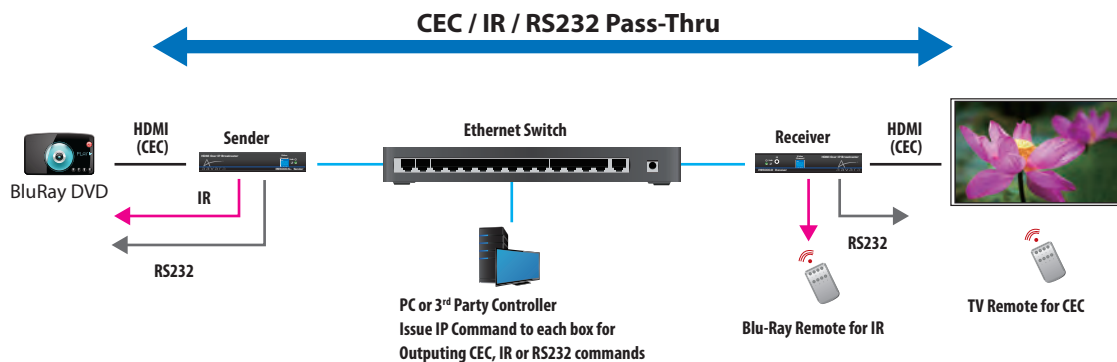- Ultra Low 16~33 ms Latency

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** — **Ethernet Switch** — **Receiver** — **HDMI (CEC)**

IR

RS232

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

Receiver

Receiver

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