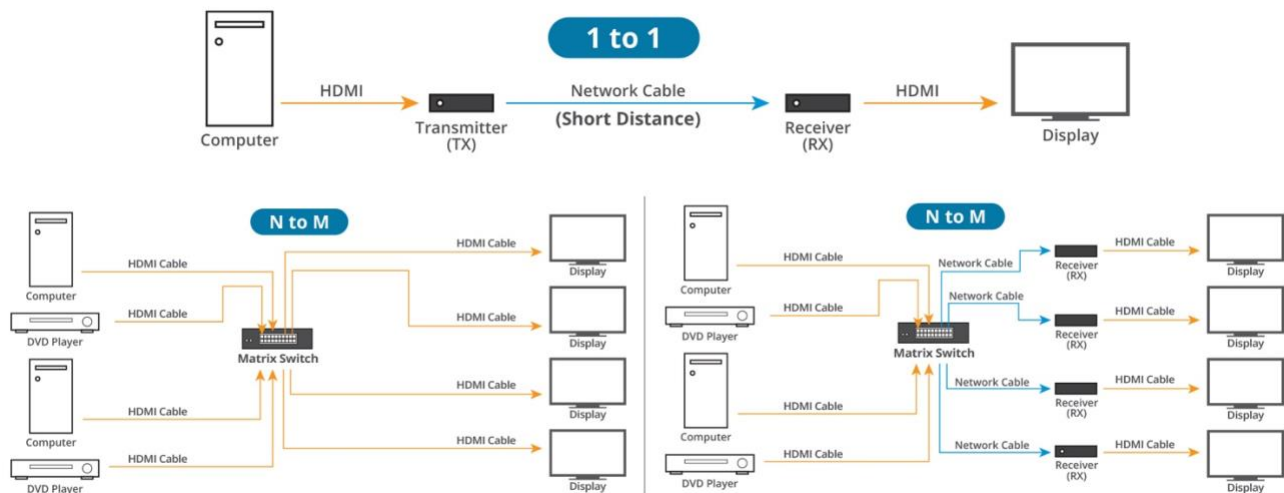# The Networked Revolution: Unleash the Potential of AV over IP and Flexibility, empowering you with choice

This revolutionary technology transmits audio and video signals over an IP network, such as the internet or a local area network (LAN). Enables the distribution and management of high-quality audio and video content using standard networking equipment, protocols, and infrastructure. Instead of relying on traditional point-to-point AV connections, AV over IP leverages the scalability and flexibility of IP networks to transmit multimedia content to multiple destinations simultaneously.

# How it work?

Traditional AV systems rely on dedicated cables, like HDMI, SDI, DVI or VGA, for each audio and video source, making them inflexible and limited. Adding new devices or changing configurations requires rewiring and can be a hassle. Plus, these systems often lack security and can be expensive, especially for complex setups.
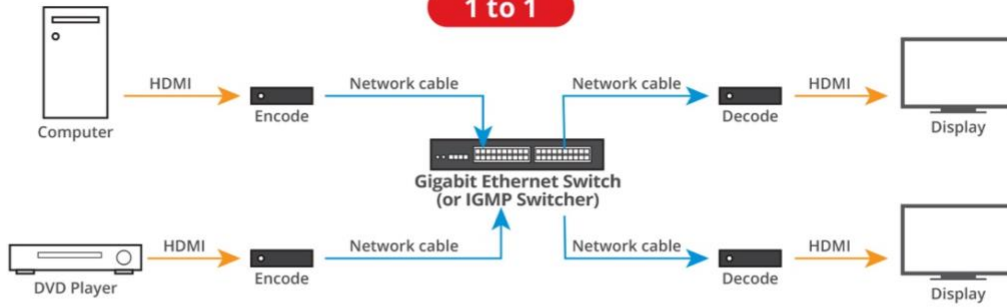
## Traditional AV



AV over IP systems use encoders, decoders, and network switches to transmit audio and video signals over a standard IP network. This allows for a more flexible and scalable way to distribute AV content.
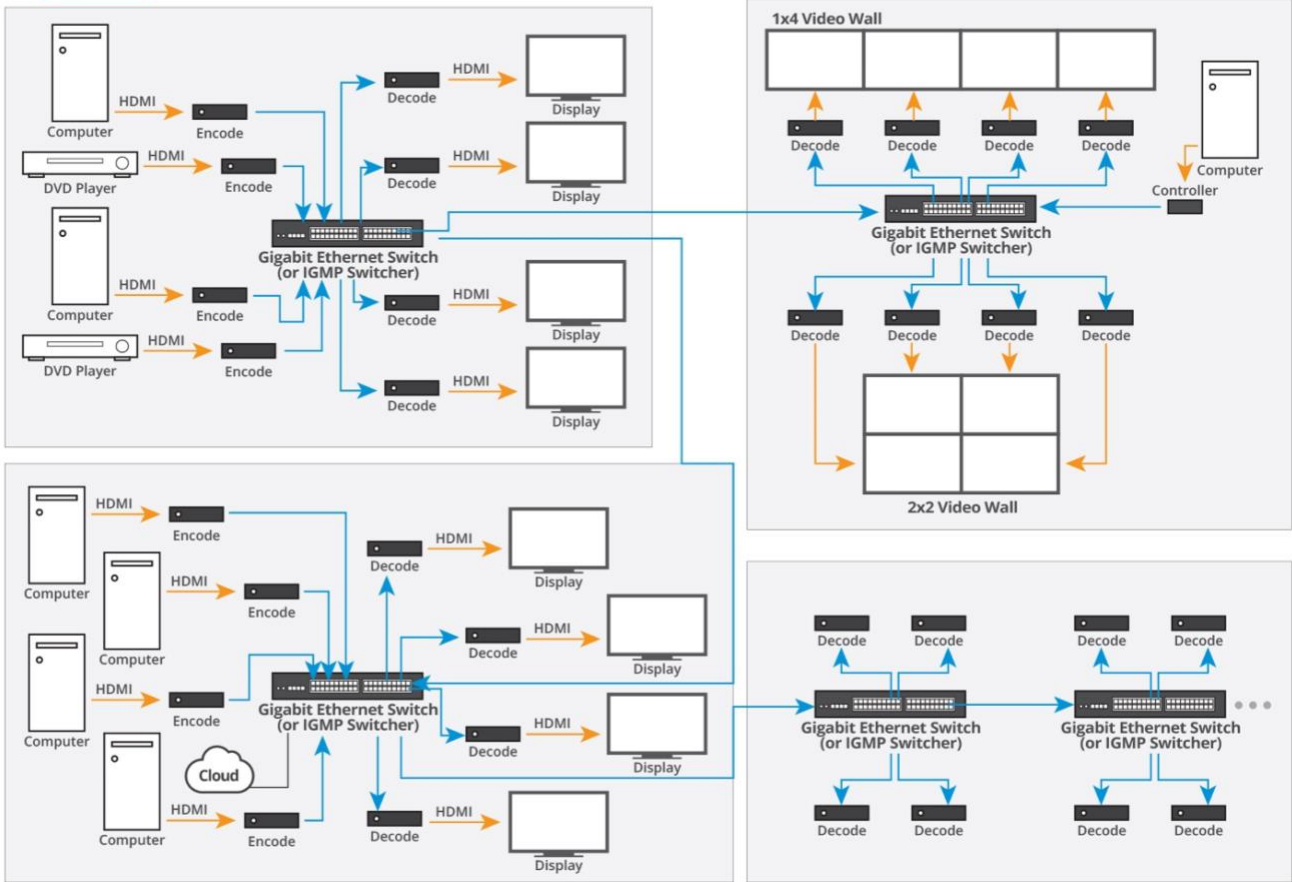
Encoders are used to convert analog audio and video signals into digital data, and then transmitting the data over the network. The data is then received by decoders, which converts it back into analog signals that can be displayed on a monitor or TV. Network switches are used to allow multiple encoders and decoders connection together.
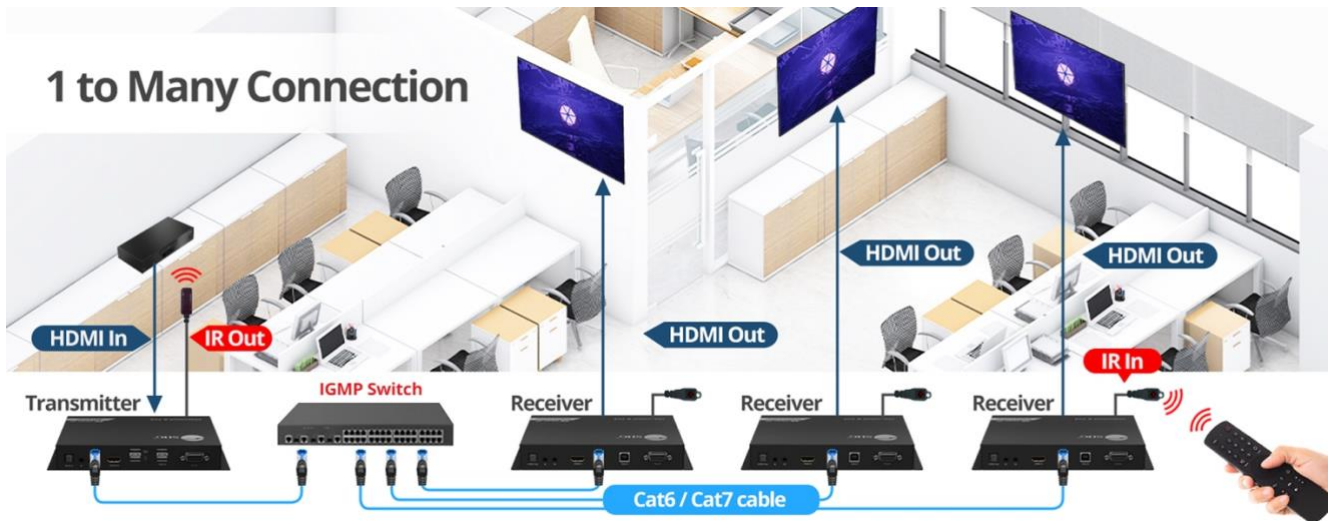
# AV over IP

# Benefits

- **Scalability**: Easily add more encoders and decoders to your system as needed. Perfect for large setups like universities or corporate offices.
- **Flexibility**: Send AV signals anywhere on your network switch, connecting any device at any location.
- **High-Quality Transmission**: Compression technologies like H.264 and H.265 ensure efficient bandwidth use while maintaining pristine audiovisual quality.
- **Cost-Effectiveness**: Can be more cost-effective than traditional AV, especially for large installations.
- **Security**: Integrates with your existing network security measures, keeping your content protected.
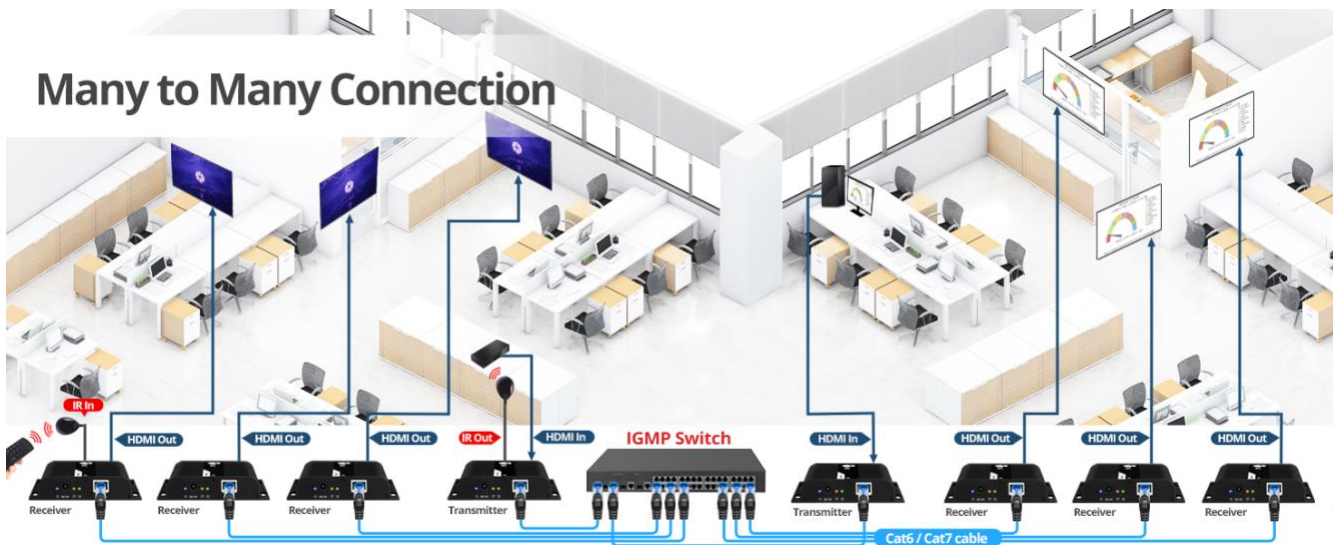
# Solutions

AV over IP solutions are versatile and can be configured to support different communication models, including one-to-one, one-to-many, and many-to-many setups



- One to One Connection: Connect a single source, like computer or DVD player, to a single display or projector. Simple and idea for basic setup.

- One to Many Connectrion: Broadcast content from one source to multiple displays simultaneously. Perfect for digital signage, restaurants or shopping centers.



- Many to Many Connection: Connect multiple sources to multiple displays, creating a flexible and dynamic multimedia environment. Idea for video conferencing rooms or control centers.

# SIIG Best AV over IP Solutions



**CE-H28A11-S1**
(Kit, 394ft/120m)

**CE-H27F11-S1**
(Encode)

**CE-H27G11-S1**
(Decoder)

**CE-H25411-S2**
(Controller)

**CE-H23A11-S2**
(Kit, 394ft/120m)

**CE-H23B11-S2**
(Encode)

**CE-H23C11-S2**
(Decoder)

**CE-H25G11-S1**
(Kit, 394ft/120m)

**CE-H25H11-S1**
(Kit, 328ft/110m)

**CE-H26411-S1**
(Encode, 330ft/110m)

**CE-H26511-S1**
(Decode, 330ft/ 110m)

**CE-H26T11-S1**
(Kit, 394ft/ 120m)

**CE-H25211-S1**
(Encode, 394ft/ 120m)

**CE-H25311-S1**
(Decode, 394ft/ 120m)

**CE-H25D11-S2**
(Kit, 394ft/ 120m)

**CE-H26U11-S1**
(Decoder, for CE-H26T11-S1 only)

[CE-H26W11-S1](#)
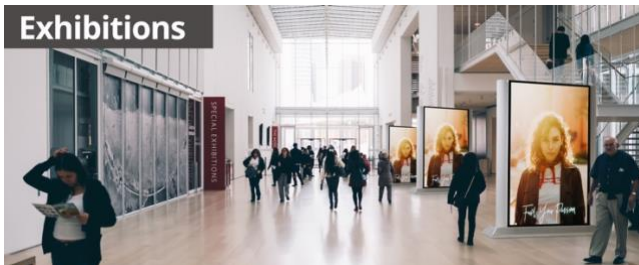(Kit, 394ft/ 120m)

[CE-H26V11-S1](#)
(kit, 394ft/ 120m)

[CE-H23A11-S1](#)
(Kit, 394ft/ 120m)

[CE-H27P11-S1](#)
(Encode/Decode
Transceiver, 600ft/
180m)

# Applications

Digital signage, Classrooms, Retail stores, A/V conference rooms, Lecture halls, Control centers, Network operation centers, Security centers, Restaurant, Shopping centers, Airports, Service centers, Exhibitions


Lecture hall


Service center


Exhibitions


Control center

## Conclusion

AV over IP is rapidly changing the AV landscape. Its scalability, flexibility, high-quality transmission, cost-effectiveness, and security make it a compelling choice for business, institutions, and individuals alike. Embrace the power of **SIIG's AV over IP** and unlock a world of possibilities for your audiovisual experience!