

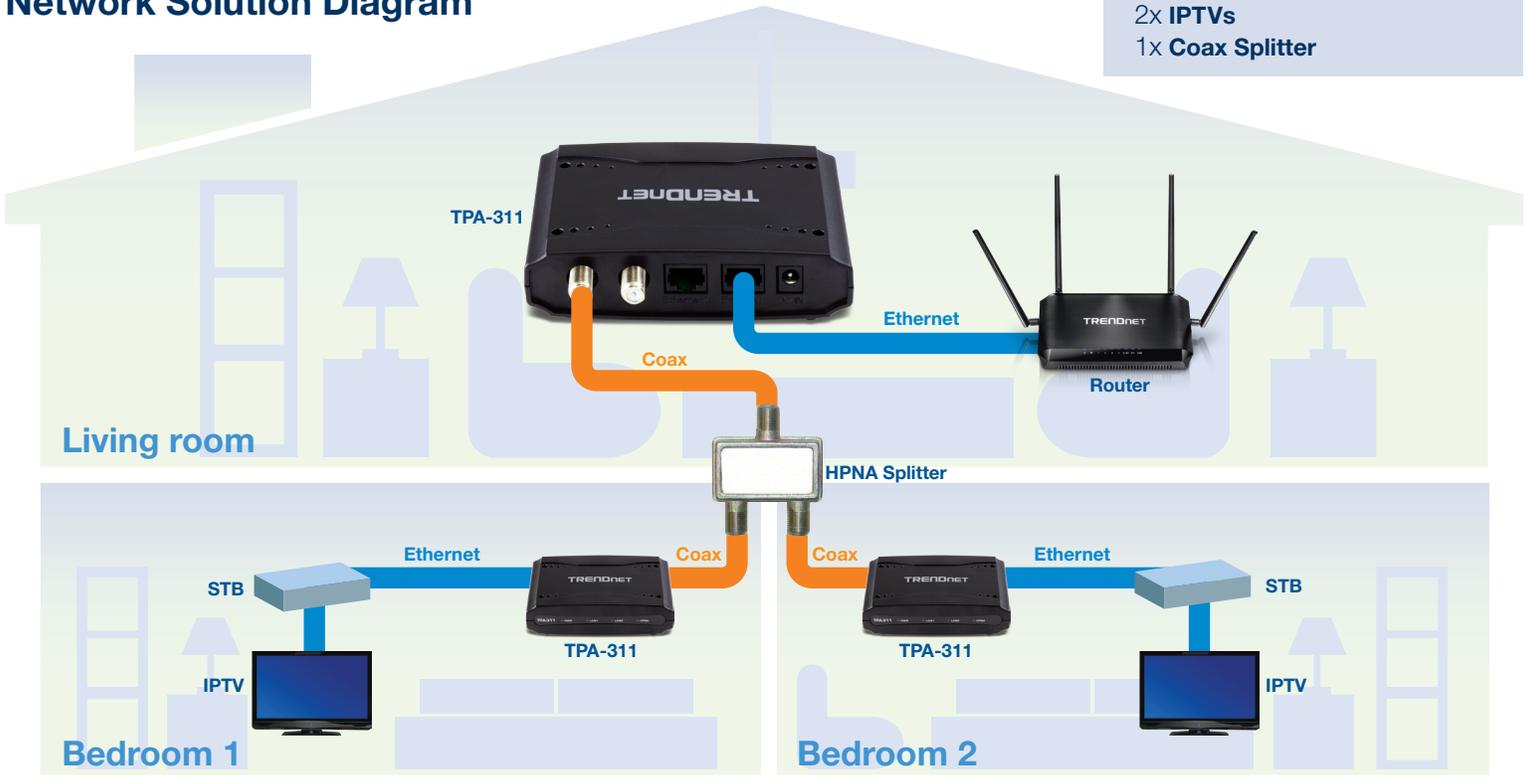
HPNA IPTV Streaming Solution

Create an Affordable Wired Ethernet Network Using Existing Coaxial Cabling

Project Summary

Many homes are pre-wired with coaxial (RG6) cabling, but not many homes are pre-wired with Ethernet cabling. Rewiring an entire home can be very costly, but TRENDnet's Mid-Band Coaxial Network Adapter, model TPA-311, assists to extend an Ethernet connection for IPTV streaming for a fraction of the cost by using a home's existing cabling. In this example, an average-sized home utilizes the TPA-311 adapter to create a whole-home Ethernet connection that allows multiple IPTVs to access the internet. TRENDnet's Mid-Band Coaxial Network Adapter is a simple and cost effective solution that ISPs and installers can utilize to meet the changing needs of their customers.

Network Solution Diagram



This diagram illustrates the installation of TPA-311 adapters to create a fast Ethernet connection using a home's existing coaxial cabling for IPTV streaming.

Solution Details

Extending the life of established infrastructure and components is a key cost-saving measure. As advancements in technology compete to become the industry standard, installers may struggle to find solutions that are both inexpensive and shielded from becoming outdated too quickly.

IPTV streaming continues to grow in popularity, but most homes are not wired with an integrated Ethernet network. TRENDnet's Mid-Band Coaxial Network Adapter, model TPA-311, provides installers a profitable solution by using a home or building's existing infrastructure to create a wired Ethernet network.

In this example, an ISP's installer arrives to a customer's home requiring a home Ethernet network. It is an average-sized home with three bedrooms, two of which have an IPTV requiring internet access. The home is already outfitted with coaxial cabling throughout the entire home and this ISP requires a set-top box for each IPTV.

TRENDnet Equipment List:

3x **TPA-311**
Mid-Band Coaxial
Network Adapter



Additional Equipment List:

1x **TRENDnet router**
2x **Set-Top Boxes from ISP**
2x **IPTVs**
1x **Coax Splitter**

The home router must first be connected by an Ethernet connection to the first TPA-311 adapter. The adapter transforms the connection from Ethernet to Coax (R6), which is then connected to a coax splitter.

In the first bedroom with an IPTV, the coax splitter is then connected to a second TPA-311 adapter via a coax connection. This second TPA-311 adapter is simultaneously connected via Ethernet to a set-top box. Connect the set-top box directly to the IPTV for a simple and cost-effective IPTV streaming solution. An additional TPA-311 and set-top box is required for each additional room; an additional HPNA splitter(s) may also be required if there is more than one additional room.

TRENDnet's HPNA IPTV streaming solution is inexpensive and simple-to-implement to extend an Ethernet connection using a home or building's existing coaxial cabling.