



ASH - EOC-01

Ethernet
Over Coax
Adapter

User Guide





ASH - EOC-01

User's Guide

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Warning and Safety Information

Please read this user's manual before operating this product. The information contained in this document is subject to change without notice. Product features and specifications may be different depending on the model purchased

Safe Use of This Product

Carefully follow the warnings and safety notices presented within this manual. Please pay special attention to the following indications of potentially hazardous situations:

Warning: 

Indicates a hazardous situation, which, if not avoided, could result in serious injury.

Caution: 

Indicates a situation, which, if not avoided, could result in damage to this product or other devices.

Note: 

Indicates additional user information to make the user aware of possible problems and to help the user understand, use and maintain the product.

Accessories

Use only those accessories and attachments provided with your product. Use of accessories or attachments that are not supplied or approved by the manufacturer may be unsafe and detrimental to the life or performance of the product and will immediately invalidate any product warranty.

Operational Environment

Avoid high moisture conditions and keep away from all liquids or humidity. This product must not be exposed to dripping, splashing or high humidity. Do not use this product in any location where it may come into contact with any liquid or vapor.

Product Care and Servicing

Attempts to dismantle the product may be unsafe and may be detrimental to the life or performance of the product and will immediately invalidate any product warranty. Servicing must be done by qualified service personnel only.

Proper Cleaning

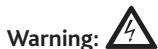
Proper cleaning will prevent damage to the unit and its components. The product, its accessories and attachments should only require occasional wipe with a dry cloth. Remove plug from the wall outlet before cleaning the product. Do not spray any substance or use any polishes, thinners, abrasive cleaning products, liquids or aerosol products to clean the product, its accessories or attachments.

Installation and Set-Up

A suitable operating environment is required to safely utilise this product and to avoid malfunctions or damage to the unit. Do not place the product where it may be subject to physical shock or vibration or where the product may drop, topple, slide or shake, which may cause personal injury or damage to the product not covered by the manufacturer's warranty. Openings on the housing of the product are required for ventilation. Do not block or obstruct the airflow through these openings. Do not operate the product on a soft surface such as carpet, rug, bed, etc. as these surfaces will obstruct airflow, may cause the product to overheat and will invalidate the warranty. Do not install the product into any bookcase, shelf or rack without ensuring that a minimum of 100mm of clear space is available at the front, rear, sides and top of the product. Do not install the product where it may be exposed to direct sunlight or radiant, convected or conducted heat from an open fire or radiator. The product should not be placed on any surface that may become warm during use (such as on top of a VCR or A/V amplifier) and nothing should be placed on top of the product. Do not cover the product. Objects containing liquids, such as vases, flowerpots, etc. must not be placed on top of the product.

Power Source

The product must **ONLY** be used with the power adapter supplied by the manufacturer. If it is necessary to operate the product in another country or geographical area with a different power source, an approved adapter for that country or location must be obtained from your retailer. The product and power supply will get warm to the touch during normal use.



Warning:

Because the power adapter is designed only for the use with your product, connecting it to other devices may damage the adapter or other devices.

Federal Communication Commission (FCC) Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Re-orientate or relocate the receiving antenna.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Install an approved low pass filter.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

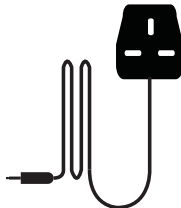
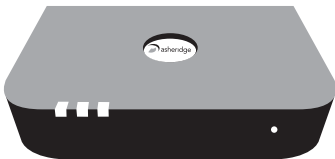
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Product Overview

Package Contents and Accessories

Thank you for purchasing the ASH-EOC-01. Before you start installing the device, please verify that your package contains the below items:

- ☒ ASH-EOC-01
- ☒ Power Adapter
- ☒ User's Guide



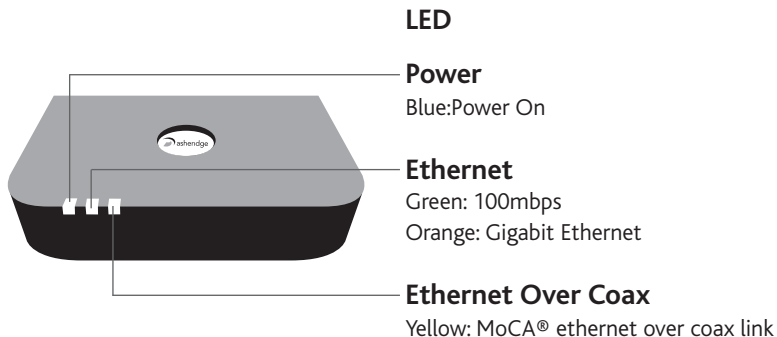
Introduction

The ASH EOC-01 provides a simple solution to link your network-connectable devices from room to room using your existing coaxial cable. It acts as a bridge between the standard Ethernet network and your home coaxial wiring system for transferring network data and streaming multimedia content. Its connection and mechanism is compliant with the MoCA® 1.1 standard using clean and shielded coaxial cables as the transferring medium. While coexisting with CATV and terrestrial TV services, the ASH EOC-01 is capable of providing high-speed internet access for entertainment devices such as game consoles, media players, internet enabled TVs, DVRs (digital video recorders) etc.

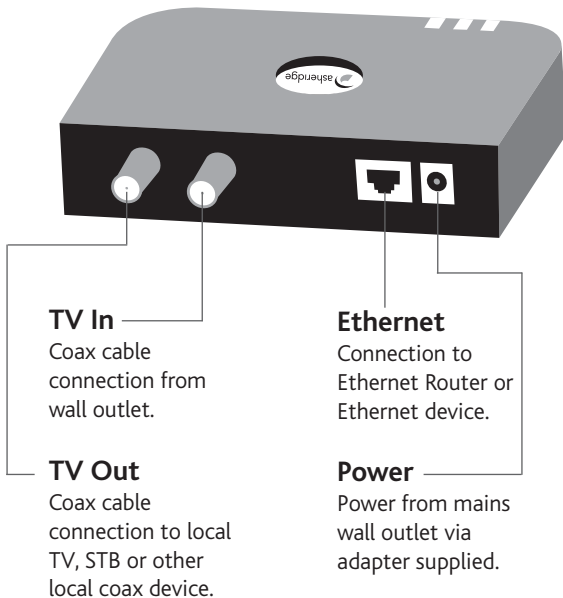
Indicators and Ports

LED Indicator Definitions

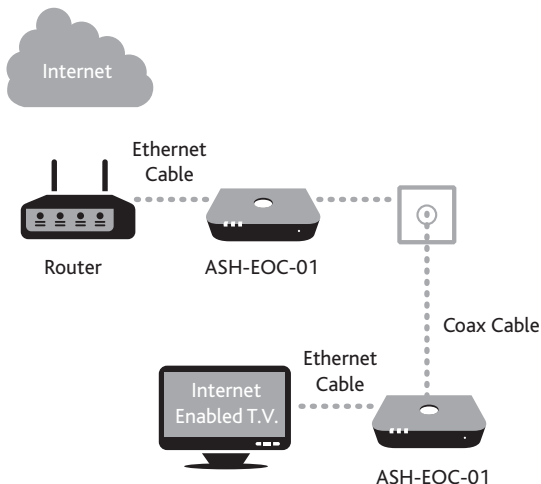
The LED lights located on the front panel indicate the status of the Ethernet network, coaxial network and power connection.



Connection Interfaces



Basic Connection



This chapter demonstrates the basic setup, which requires two ASH EOC-01 units used as a pair to connect an internet enabled TV to an existing network.

As illustrated on page 12, the router uses an Ethernet cable to connect to the ASH EOC-01 and then uses the coaxial cable between the adapters to transfer data. After connecting the Internet enabled TV to the ASH EOC-01, the Internet enabled TV is linked to the network and will be able to access Internet services through the router.

Before Installation

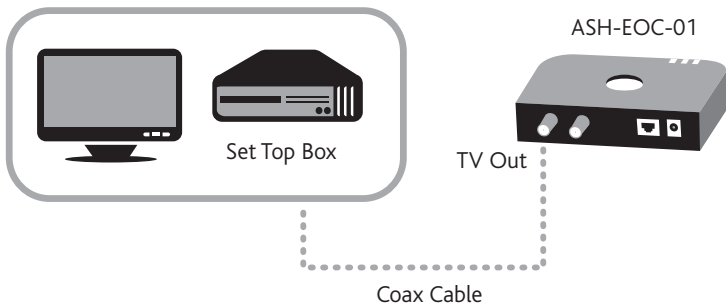
Before installing the ASH EOC-01, you must confirm that the rooms you choose are part of your home coaxial network.

Hardware Requirements

- Ethernet Cable
- Coaxial Cable
- ASH EOC-01 (at least two devices)

Installation Steps

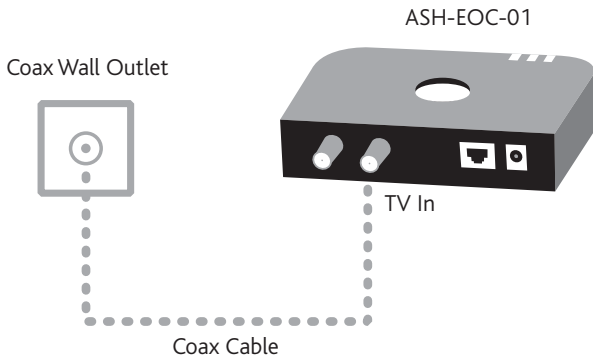
1. Connect the existing coax cable from your TV or set-top box (or other device that was previously connected to the coaxial cable wall outlet) to the **TV OUT** port on the rear panel of each of the EOC-01 located in different rooms.



Note:

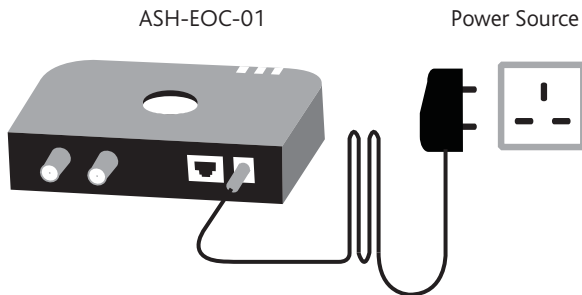
The **TV OUT** port filters out the Internet-to-tv signal so should not be connected to other Internet-to-tv devices including Internet-to-tv DVR's or STB's. Where this is required external splitter should be used.

2. Connect the coaxial cable from the wall cable outlet to the **CABLE IN** port on the rear panel of the two ASH EOC-01 devices located in the two rooms.

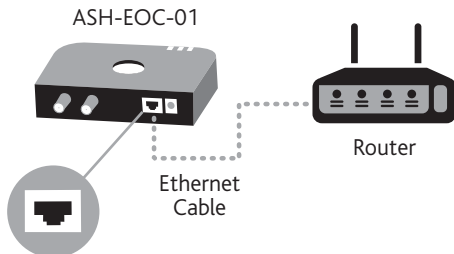


3. Now you can turn on your TV to confirm that the TV service is available. If your TV service is not available, verify the cables are securely connected to the correct ports as stated in the previous steps. (Please disregard if you are not using the product along with a television signal).

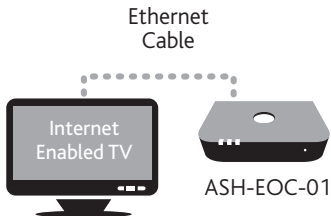
4. Connect the power adapter from the wall outlet to the **POWER** port on the rear of the two EOC-01 devices. The Power Blue LED light will turn on.



6. After the coaxial network is established, connect the Ethernet cable from the network device of one room to the Ethernet port of this product first. In this example, we connect the router with the EOC-01.



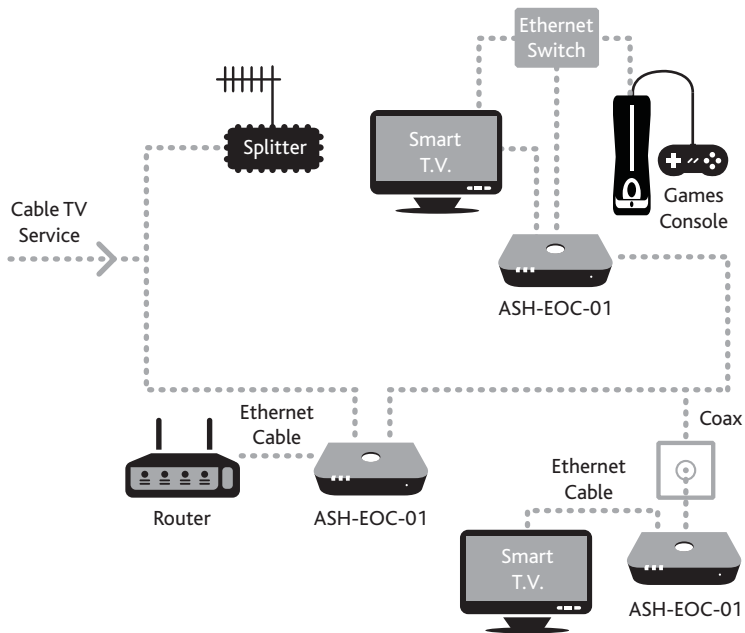
7. Connect another Ethernet capable product to the Ethernet port of the EOC-01 in the other room. For example, we connect an Internet enabled TV to the EOC-01 as shown in the illustration. Now, the TV is able to communicate with the router and access the Internet.



Connect to Your Home Entertainment Network

Home Network Environment

The coaxial network that has been widely deployed in almost every building is a good and convenient backbone for your home networking environment. By performing the basic installation that is introduced in previous chapter, you can easily add each of your rooms to your home network. See reference applications below for linking your network devices.



Specifications for ASH-EOC-01

Ethernet Interface	Gigabit-Ethernet Port	RJ45
Cable Interface	Cable Input Loop Through Output	F-Type, 75 Ohm F-Type, 75 Ohm
Diplexer	Low Pass	5-1002MHz
	Insertion Loss	2dB Max
	Return Loss	10dB Min
	High Pass	1125 -1525MHz
	Insertion Loss	3dB Max
	Return Loss	10dB Min
MoCA® System	Main Chip	Entropic, EN2510 MoCA® 1.1 Compliant
	Network Centre	1150 - 1500MHz
	Frequency Range	MoCA® D Band supported
	Channel Bandwidth	50MHz
	Throughput	Min. 130Mbps MAC rate while PHY rate 250 Mbps

Specifications for ASH-EOC-01 (Cont.)

Power Adapter	Main Input	100 - 240 VAC ~, 50/60Hz
	DC Output	12V@1A
	Power Consumption	< 10W
Plastic Housing	Dimensions	125 x 80 x 28 mm
Regulation	CE Compliant	EMC / LVD
Certification	RoHS Complaint	WEEE

Service and Support

For service and support, either contact your authorised retailer or service provider, stating the serial number of your product, date and place of purchase and the nature of the fault.

