

# MoCA 2.0 Network Adapter



Model# ECB6000

## Wired Speeds Boost the Connected Home Experience

The connected home needs more bandwidth than ever before. Over-the-Top HD video is pushing home networks to the limits, with tablets, smartphones, gaming devices and televisions often streaming high-def content at the same time.

The ECB6000 MoCA 2.0 Bridge brings an instant performance boost to the home network, ensuring uninterrupted and pristine HD video, online gaming, and high speed networking. The device turns a home's coaxial wires into a high speed Ethernet network, with speeds up to 670 Mbps. The result is a blazing fast wired backbone that enhances the connected home experience and supplements an existing Wi-Fi network with high-speed wired connection points.

## Perfect for HD Video Streaming and Gaming

When the home's wireless network can't keep up with bandwidth spikes, homeowners find their crisp HD video gets bumped down to standard definition or pauses to buffer. The ECB6000 MoCA Adapter relieves the pressure on the home's Wi-Fi. It turns any coax port into a high-speed Ethernet connection that's perfect for connecting HD televisions, set top boxes, and gaming consoles.

## Next Generation MoCA 2.0 Speeds

MoCA technology guarantees the distribution of HD and ultra-HD content around the home over coax. With support for the latest MoCA 2.0 standard, the ECB6000 delivers wired speeds up to 670 Mbps\*, more than enough bandwidth for HD video, online gaming, and other demanding applications. Join the millions of homes in North America that are taking their HD video streaming and online gaming to the next level with an Actiontec MoCA solution.

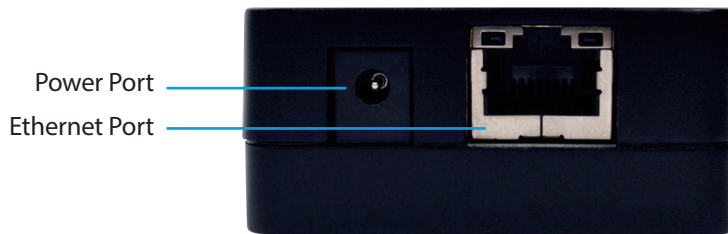
## Install in Seconds

The ECB6000 MoCA 2.0 Bridge works over the home's existing coaxial wiring, enabling homeowners to enjoy the reliability and performance of a wired connection without having to wire the home for Gigabit Ethernet. Simply plug one MoCA adapter into your router and another to the HDTV, set top box or other device. Most do-it-yourself consumers can complete the installation in less than 5 minutes and installation professionals no longer need to pull cables throughout the house.

## Features

- Enhance the home's Wi-Fi network with wired speeds and reliability
- Perfect for delivering pristine OTT HD video to the home theater
- Speeds up to 670 Mbps\*
- Works over home's existing coaxial wiring
- Not prone to hacking or interference with other devices
- MoCA 2.0 with backward compatibility to MoCA 1.1
- Won't interfere with cable TV services
- Large Packet Buffer Memory for high sustained throughput

\* Actual throughput will vary based on the condition and noise found on the coaxial wiring within the home as well as the type of Ethernet Adapter supported on each device.



## Specifications

### RF Interface

- Connector: F-type
- Impedance: 75  $\Omega$

### Network Center Frequency Range

- 1150 ~ 1500MHz

### Network Frequency Range

- 1125 ~ 1525MHz

### Max Transmit Power

- +3 dBm (52 dBmV)

### Link Conditions

- Min Attenuation (> 670 Mbps): 10 dB min
- Max Attenuation (> 600 Mbps): 50 dB max
- Max Attenuation (>300 Mbps): 68 dB max

### Network Size

- 16 Devices (including NC)

### Max Physical Data Rate

- Up to 670 Mbps

### Coax Application Data Rate

- Up to 335 Mbps bi-directional combined

### Ethernet Interface

- Connector Type: RJ45
- Configuration: One Port
- 10/100/1000 Base T 802.3ab Ethernet LAN

### MoCA Version

- MoCA 2.0

### Link Delay

- Typical: 3.5 ms
- Max: 9 ms

### Power Requirement

- Power Consumption: < 5Watts
- Input Range: 100-240VAC, 50/60Hz

### Environmental Conditions

- Ambient Temperature Range: 0 ~ 41.7 °C
- Storage Temperature Range: -20 ~ 85 °C
- Operating Humidity: 10% ~ 85% Non-condensing

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- Theoretical data throughput numbers are based on maximum, theoretical PHY throughput for MoCA 2.0. Actual data throughput of up to 1.06 Gbps (TCP) seen in laboratory testing. The throughput will vary based on the condition and noise found on the coaxial cabling within the home as well as the type of Ethernet Adapter supported on each computer or other device.
- Coax outlets and Coaxial wiring must all be part of the same coax system. Certain coax conditions in your home, such as wiring conditions and configuration may effect the performance of this product. A minimum of two Actiontec Coax Network Adapters are required to create a network, unless the user has a modem, router or gateway with MoCA 2.0 or below built in.
- Actiontec makes no express or implied representations or warranties about this product's compatibility with any future standards.
- Product photo may differ from actual product, however functionality remains as stated above.
- Specifications are subject to change without notice.

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