



**500Mbps**  
PowerLine

**plug & play**

**HD**  
IPTV



**HP-5101KK**

## 500Mbps Nano PowerLine Adapter Kit



### Transmit Network Data via Existing Electrical Wires

If your home or office does not have Ethernet cables installed in the wall and you dislike the idea of unsightly external cabling running all over the place, use the Edimax HP-5101K to turn the existing electrical wires in your home or office into a high-speed network connection. With the HP-5101K, annoying cable planning and installation are no longer necessary. The HP-5101K enables you to create a network environment easily and cost-effectively.

### 500Mbps HomePlug AV Standard & IGMP Support

The Edimax HP-5101K not only complies with the HomePlug AV standard but also supports IGMP managed multicast streams. The HP-5101K can transmit network data over existing electrical wires at speeds of up to 500Mbps. It is also backward compatible with the 200Mbps HomePlug AV standard and has a transmission range of up to 300 meters. IGMP can be used for online gaming and video streaming applications, and allows for more efficient use of network resources. With the HP-5101K, you will be able to transfer high-definition video and digital audio quickly and easily.

### Coexistence with HomePlug 1.0 & 1.0 Turbo Devices

The Edimax HP-5101K is designed to ensure efficient coexistence with HomePlug 1.0 and 1.0 Turbo devices, providing guaranteed QoS to all the devices present in the heterogeneous powerline network. In such an architecture, the HP-5101K and other HomePlug 1.0 stations share the CSMA/CA allocations, thus providing fair access to HomePlug 1.0 stations based on traffic priority.

### Hardware Combo Group/Reset Button

The Edimax HP-5101K has a combo group/reset button for simplified group and reset configurations. Press the group/reset button and the HP-5101K will help you set up a password for your network automatically, or reset the device to factory defaults.

### 128-Bit AES Encryption

With built-in compliance with the 128-bit AES encryption standard, the Edimax HP-5101K is able to give you superior powerline network security.

## FEATURES & TECHNICAL SPECIFICATIONS

- Easy plug-n-play setup and 128 bit AES security
- Max. powerline speed up to 500Mbps
- Backward compatible with 200Mbps powerline adapters
- Features energy saving mode to reduce power consumption
- Utilizes existing electrical wires to transmit network data
- Powerline transmission range up to 300 meters

Hardware	Standards	Functions
<ul style="list-style-type: none"> <li>• 1 x Power jack</li> <li>• 1 x 10/100Mbps Fast Ethernet port</li> <li>• 1 x Group/Reset button</li> <li>• LED indicators: power, Ethernet, powerline</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 1901</li> <li>• IEEE 802.3</li> <li>• IEEE 802.3u</li> </ul>	<ul style="list-style-type: none"> <li>• Supports IPv6, IGMP, and MLD snooping</li> <li>• Supports VLAN pass-through</li> <li>• Integrated Quality of Service (QoS)</li> <li>• Coexistence with HomePlug 1.0 devices</li> <li>• Utility software</li> </ul>
Frequency Band	Modulation Schemes	Operating Range
<ul style="list-style-type: none"> <li>• 2-68MHz</li> </ul>	<ul style="list-style-type: none"> <li>• OFDM symbol modulation on line synchronization 1024/256/64/16/8-QAM, QPSK, BPSK, ROBO modulation</li> </ul>	<ul style="list-style-type: none"> <li>• Up to 300 meters</li> </ul>
Memory	Security	Temperature & Humidity
<ul style="list-style-type: none"> <li>• 1MB Flash</li> <li>• 8MB SDRAM</li> </ul>	<ul style="list-style-type: none"> <li>• 128-bit AES link encryption</li> </ul>	<ul style="list-style-type: none"> <li>• 0-40 degrees Celsius</li> <li>• 10-90% (non-condensing)</li> </ul>
Power Input	Dimensions	Certifications
<ul style="list-style-type: none"> <li>• 100-240V AC, 50-60Hz</li> </ul>	<ul style="list-style-type: none"> <li>• 72 x 52 x 24 mm</li> </ul>	<ul style="list-style-type: none"> <li>• FCC, CE</li> </ul>

## NETWORK SETUP DIAGRAM AND RELATED PRODUCTS

- Plug an HP-5101K to a power outlet and connect it to a broadband router.
- Plug another HP-5101K to a power outlet and connect it to a computer's Ethernet port to establish a powerline connection.

