



500Mbps
PowerLine



HP-5101

500Mbps Nano PowerLine Adapter



Transmit Network Data via Existing Electrical Wires

The Edimax HP-5101 can turn the existing electrical wires in your home or office into a high-speed network. Complicated, disruptive and unsightly cabling is no longer necessary - if your home or office doesn't have an existing Ethernet cable infrastructure, the HP-5101 enables you to create a network environment easily and cost-effectively.

500Mbps HomePlug AV Standard & IGMP Support

The Edimax HP-5101 not only complies with the HomePlug AV standard but also supports IGMP managed multicast streams. The HP-5101 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-5101, you will be able to transfer high-definition video and digital audio quickly and easily.

Compatible with HomePlug 1.0 & 1.0 Turbo Devices

The HP-5101 is designed to ensure efficient coexistence with HomePlug 1.0 and 1.0 Turbo devices, providing guaranteed QoS to all devices present in a heterogeneous powerline network. In such an architecture, the HP-5101 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-5101 has a combo group/reset button for simplified group and reset configurations. Press the group/reset button and the HP-5101 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-5101 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"> • 1 x Power jack • 1 x 10/100Mbps Fast Ethernet port • 1 x Group/Reset button • LED indicators: power, Ethernet, powerline 	<ul style="list-style-type: none"> • IEEE 1901 • IEEE 802.3 • IEEE 802.3u 	<ul style="list-style-type: none"> • Supports IPv6, IGMP, and MLD snooping • Supports VLAN pass-through • Integrated Quality of Service (QoS) • Coexistence with HomePlug 1.0 devices • Utility software
Frequency Band	Modulation Schemes	Operating Range
<ul style="list-style-type: none"> • 2-68MHz 	<ul style="list-style-type: none"> • OFDM symbol modulation on line synchronization 1024/256/64/16/8-QAM, QPSK, BPSK, ROBO modulation 	<ul style="list-style-type: none"> • Up to 300 meters
Memory	Security	Temperature & Humidity
<ul style="list-style-type: none"> • 1MB Flash • 8MB SDRAM 	<ul style="list-style-type: none"> • 128-bit AES link encryption 	<ul style="list-style-type: none"> • 0-40 degrees Celsius • 10-90% (non-condensing)
Power Input	Dimensions	Certifications
<ul style="list-style-type: none"> • 100-240V AC, 50-60Hz 	<ul style="list-style-type: none"> • 72 x 52 x 24 mm 	<ul style="list-style-type: none"> • FCC, CE

NETWORK SETUP DIAGRAM AND RELATED PRODUCTS

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

