



500Mbps Powerline



HD IPTV



Reduce power
use by over 30%

HP-5102

500Mbps Nano PowerLine Adapter

Transmit Network Data via Existing Electrical Wires

The Edimax HP-5102 transforms 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-5102 enables you to create a network environment easily and cost-effectively.

500Mbps HomePlug AV Standard & IGMP Support

The Edimax HP-5102 not only complies with the HomePlug AV standard but also supports IGMP managed multicast streams. The HP-5102 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-5102, you can transfer high-definition video and digital audio quickly and easily.

Compatible with HomePlug 1.0 & 1.0 Turbo Devices

The HP-5102 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-5102 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-5102 has a combo group/reset button for simplified group and reset configurations. Press the group/reset button and the HP-5102 will help you set up a password for your network automatically, or reset the device to factory defaults.

Key Features:

- Easy plug-n-play setup and 128 bit AES security
- Maximum 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

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TECHNICAL SPECIFICATIONS

Hardware	Standards	Effect Data Rate
<ul style="list-style-type: none"> ✦ 1 x Power jack ✦ 1 x 10/100Mbps Ethernet LAN 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"> ✦ TCP: Up to 95 Mbps effective throughput ✦ UDP: Up to 95 Mbps effective throughput
Frequency Band	Modulation Schemes	Operating Range
<ul style="list-style-type: none"> ✦ 2-68MHz (with Mask) 	<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
QoS	Nodes	IGMP
<ul style="list-style-type: none"> ✦ 4 levels priority based contention access, and multi segment bursting ✦ 8 levels VLAN priority field, TOS field ✦ QoS classification by destination MAC address and IP port 	<ul style="list-style-type: none"> ✦ Up to 15 slaves with 1 master, 16 total devices ✦ Max 8 bridged devices per station 	<ul style="list-style-type: none"> ✦ Support for IPv4/IGMPv1,v2,v3 snooping ✦ Support for IPv6 and MLDv1, v2 snooping ✦ Max 16 source addresses and group members
IC / Memory	Security	Temperature & Humidity
<ul style="list-style-type: none"> ✦ AR7420+1540 ✦ 1MB Flash ✦ 8MB SDRAM 	<ul style="list-style-type: none"> ✦ 128-bit AES link encryption with key management 	<ul style="list-style-type: none"> ✦ 0-45 degrees Celsius ✦ 10-90% (non-condensing)
Power Source / Power Consumption	Dimensions & Weight	Certification
<ul style="list-style-type: none"> ✦ 100-240V AC, 50-60Hz ✦ 4W 	<ul style="list-style-type: none"> ✦ 67 x 50 x 32mm ✦ 109g 	<ul style="list-style-type: none"> ✦ CE, FCC, LVD

NETWORK SETUP DIAGRAM AND RELATED PRODUCTS

- Plug a HP-5102 into a power outlet and connect it to a broadband router.
- Plug another HP-5102 into a power outlet and connect it to a computer's Ethernet port to establish a powerline connection.

