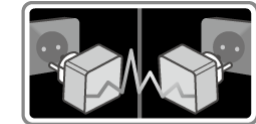**EDIMAX**
NETWORKING PEOPLE TOGETHER

500
AV500 Powerline

HD
HD IPTV

Energy Saving

Plug & Play

HP-5103 / HP-5103K

AV500 Nano PowerLine Adapter

Unsatisfied that your wireless can't reach certain areas in your house? Powerline is an ideal and simple solution to your problem. Edimax's HP-5103 AV500 Nano Powerline Adapter extends your internet access with standard power outlets to create a 500 Mbps high-speed network to any room without internet dead spot and no more messy wires running through your house.

Unlike Wi-Fi devices with limited bandwidth, HP-5103 is perfect for high-bandwidth applications like HD video and audio streaming, and it's compatible with any networking device with an Ethernet port. HP-5103 Powerline adapters can reach locations wireless cannot, so they are ideal for computers, home theater, smart TVs and gaming devices. It provides you an expandable and easy to set up network at home.

Plug & Play, Easy to Create or Extend Network via Existing Electrical Wires

The Edimax HP-5103 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-5103 enables you to create a network environment easily and cost-effectively.

PowerLine

Up to 500Mbps, 300 Meters

The Edimax HP-5103 not only complies with the HomePlug AV standard but also supports IGMP managed multicast streams, used for online gaming and video streaming applications and allows for more efficient use of network resources. The HP-5103 can provide users with a stable high-speed data transmission rates of up to 500Mbps over the existing electrical wires and has a transmission range of up to 300 meters. With the HP-5103, you can transfer high-definition video and digital audio quickly and easily.

AV500
Speed up to 500Mbps

HD Video Streaming
Online Gaming

*HP-5103K Adapter Kits includes 2 units of HP-5103 Adapters

500/200Mbps is the maximum theoretical communication speed at the physical layer via electric power lines based on the IEEE 1901 standard.
Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.

www.edimax.com

AV500 Nano PowerLine Adapter

HP-5103 / HP-5103K

87.5%

Energy Saving

The HP-5103 supports the energy saving mode to reduce power consumption. If no data transmission or reception occurs over a certain period of time, the adapter will automatically go into standby mode to save power up to 87.5%.

Less Power Consumption

Hardware Combo Group/Reset Button

The Edimax HP-5103 has a combo group/reset button for simplified group and reset configurations. Press the group/reset button and the HP-5103 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
- Compatible with HomePlug 1.0 & 1.0 Turbo Devices
- 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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AV500 Nano PowerLine Adapter

HP-5103 / HP-5103K

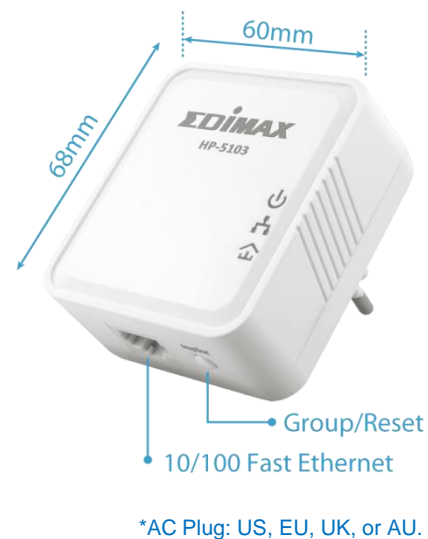## TECHNICAL SPECIFICATIONS

Hardware	Standards	Effect Data Rate
✳1 x AC plug (EU, UK, US, or AU) ✳1 x 10/100Mbps Ethernet LAN port ✳1 x Group/Reset button ✳LED indicators: power, Ethernet, Powerline	✳IEEE 1901 ✳IEEE 802.3 ✳IEEE 802.3u	✳TCP: Up to 95 Mbps effective throughput ✳UDP: Up to 95 Mbps effective throughput ✳Powerline: 500Mbps (PHY rate)
Frequency Band	**Modulation Schemes**	**Operating Range**
✳2-68MHz (with Mask)	✳OFDM symbol modulation on line synchronization 1024/256/64/16/8-QAM, QPSK, BPSK, ROBO modulation	✳Up to 300 meters
QoS	**Nodes**	**IGMP**
✳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	✳Up to 15 slaves with 1 master, 16 total devices ✳Max 8 bridged devices per station	✳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**
✳AR7420+1540 ✳1MB Flash ✳8MB SDRAM	✳128-bit AES link encryption with key management	✳0-45 degrees Celsius ✳10-90% (non-condensing)
Power Source & Power Consumption	**Dimensions & Weight**	**Certification**
✳100-240V AC, 50-60Hz ✳4W	✳68 x 60 x 28mm ✳84g	✳CE, FCC, LVD

APPLICATION DIAGRAM

— Powerline
— Fast Ethernet Cable

Wi-Fi PowerLine Adapter
Network Camera
HP-5103 PowerLine Adapter
Wall
Internet
HP-5103 PowerLine Adapter
Router
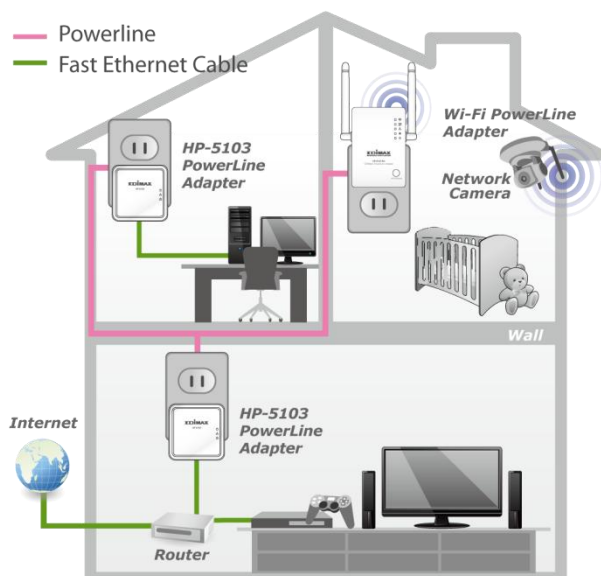
*Powerline adapters must be deployed in sets of two or more.

HARDWARE INTERFACE

60mm
68mm
EDIMAX HP-5103

Group/Reset
10/100 Fast Ethernet

*AC Plug: US, EU, UK, or AU.

*HP-5103K Adapter Kits includes 2 units of HP-5103 Adapters

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RoHS FC CE