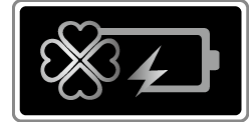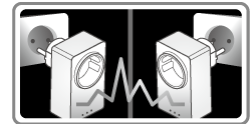# EDIMAX
NETWORKING PEOPLE TOGETHER

600 AV600 Gigabit Powerline

HD 3D/HD Streaming

Energy Saving

Plug & Play

HP-6002AC / HP-6002ACK

# AV600 Gigabit PowerLine Adapter with Integrated Power Socket

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-6002AC AV600 Gigabit Powerline Adapter extends your internet access with standard power outlets to create a 600 Mbps high-speed network to any room without internet dead spots and no more messy wires running through your house.

Unlike Wi-Fi devices with limited bandwidth, the HP-6002AC is perfect for high-bandwidth applications like HD video, 3D movies and audio streaming to every room, and it's compatible with any networking device with an Ethernet port. HP-6002AC Powerline adapters can also reach locations which Wi-Fi can't, so they are ideal for computers, home theater, smart TVs and gaming devices - providing you with an expandable and easy to set up network at home.

Fastest Powerline Speed
Up to 600Mbps Powerline Speed & 1000Mbps Gigabit LAN Speed
The Edimax HP-6002AC comes with the latest Powerline speed up to 600Mbps and Gigabit speed up to 1000Mbps, providing users with the fastest Powerline adapters and taking home networks to super-speed levels.

AV200 (Fast Ethernet)
AV500 (Fast Ethernet)
AV600 (Gigabit Ethernet)

200   500 600   Mbps
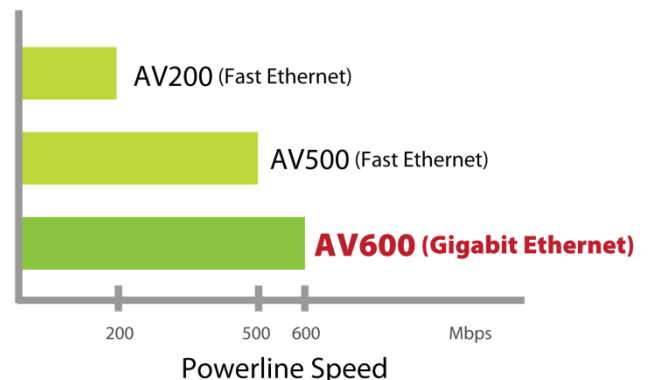
Powerline Speed

Smooth Connection
Ideal for Multiple 3D/HD Video Streaming and Multiplayer Gaming
600Mbps Powerline speed and RJ45 Gigabit Ethernet is ideal for bandwidth intensive applications such as multiple 3D/HD video streaming and multiplayer gaming, ensuring smooth transition and high performance.

AV600 **Speed up to 600Mbps**

3D/HD Video Streaming

Online Gaming

Gigabit Ethernet Port

(HP-6002ACK Adapter Kits with 2 pcs of HP-6002AC)

Plug & Play, No More Unsightly Cabling
Easily Create or Extend Networks via Existing Electrical Wires

The Edimax HP-6002AC 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-6002AC enables you to create a network environment easily and cost-effectively.

PowerLine

Plug & Play

No Electrical Outlet Goes to Waste
Integrated Power Socket with Noise Filter

With the Edimax HP-6002AC, no electrical outlet goes to waste. It is built with an integrated power socket, which you can use with any electrical device. So even when the HP-6002AC is plugged into a socket, you can still plug another electrical device into the HP-6002AC and have your usual socket capacity. The in-built noise filter also ensures that you do not experience a sudden drop of network speed when a high power consuming electrical device is being used.

KEY FEATURES
- High-speed data transfer rate of up to 600Mbps, ideal for bandwidth-intensive HD video or 3D video streaming and online gaming.
- Features an energy saving mode to reduce power consumption.
- Up to 300-meter range over a home's electrical circuit for better performance through walls or across floors.
- Built-in QoS assures the quality of bandwidth sensitive applications such as voice, video and online games.
- Supports IGMP managed multicast IP transmission and optimizing IPTV streaming.
- Compatible with all AV500 & AV200 Powerline adapters (HomePlug AV).
- Integrated power socket with noise filter.

(HP-6002ACK Adapter Kits with 2 pcs of HP-6002AC)

600Mbps is the maximum theoretical communication speed at the physical layer via electric power lines (i.e. speed between Powerline devices) 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.
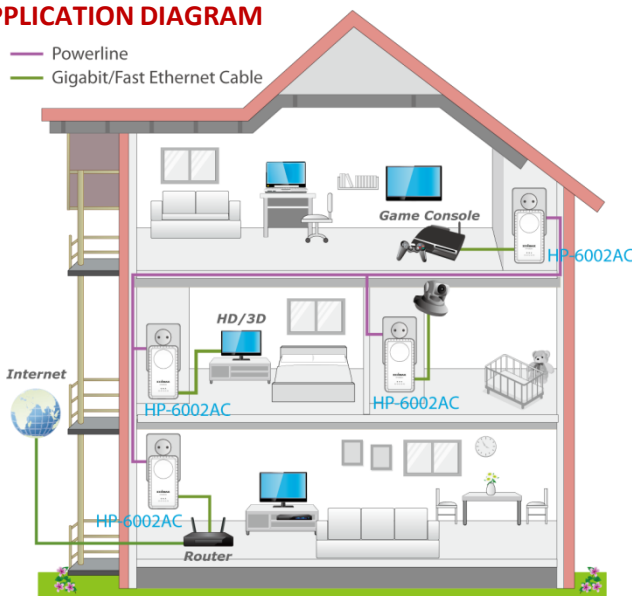
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www.edimax.com

AV600 Gigabit PowerLine Adapter with Integrated Power Socket

HP-6002AC / HP-6002ACK

TECHNICAL SPECIFICATIONS

Hardware	Standards	Effect Data Rate
❋ 1 x AC plug (EU, UK, US, or AU) ❋ 1 x 10/100/1000Mbps Ethernet LAN port ❋ 1 x Group ❋ 1 x Reset button ❋ LED indicators: power, Ethernet, Powerline	❋ IEEE 1901 ❋ IEEE 802.3 ❋ IEEE 802.3u ❋ IEEE 802.3ab ❋ HomePlug AV2	❋ TCP: Up to 230 Mbps effective throughput ,270 Mbps with multiple sessions ❋ UDP: Up to 280 Mbps effective throughput ❋ Powerline: 600Mbps ((IEEE 1901 and HomePlug® AV2 compliant)

Frequency Band	Modulation Schemes	Operating Range
❋ 2-68MHz (with Mask)	❋ OFDM symbol modulation on line synchronization 4096/1024/256/64/16/8-QAM, QPSK, BPSK, ROBO modulation	❋ Up to 300 meters

QoS	Nodes	IGMP
❋ Integrated Quality of Service (QoS) Enhancements ❋ Hardware Packet Classifiers for ToS, CoS and IP Port Number ❋ QoS classification by destination MAC address and IP port	❋ Up to 63 slaves with 1 master, 64 total devices ❋ 4 overlapping networks for neighbor networks with CCo failover ❋ Max 64 bridged devices per station ❋ Up to 4 masters with up to 252 slaves, 256 total devices in 4 AVLNs ❋ Up to 4096 addressable devices including bridged devices	❋ IGMP snooping with multicast to multiple unicast support in CSMA ❋ Enhanced IPv4/IGMPv1-3 snooping support ❋ Enhanced Support for IPv6 and MLDv1-2 snooping

IC & Memory	Security & Management	Temperature & Humidity
❋ AR7450 ❋ 2MB Flash ❋ 16MB SDRAM	❋ 128-bit AES link encryption with key management ❋ TR-069	❋ 0-45 degrees Celsius ❋ 10-90% (non-condensing)

Power Source & Power Consumption	Dimensions & Weight	Certification
❋ 100-240V AC, 50-60Hz ❋ EU: 16A/230VAC;UK: 13A/240VAC AU: 10A/240VAC;US: 15A/120VAC ❋ Noise Filter Insertion Loss : Up to 35dB at 1MHz – 40MHz ❋ 5W	❋ 122*67*43 mm ❋ 199g	❋ CE, FCC, LVD

APPLICATION DIAGRAM

— Powerline
— Gigabit/Fast Ethernet Cable

Game Console
HP-6002AC
HD/3D
HP-6002AC
HP-6002AC
Internet
HP-6002AC
Router

Powerline adapters must be deployed in sets of two or more.

HARDWARE INTERFACE

67mm
122mm
Group
Reset
Gigabit Etherent Port

AC Plug
EU
UK
US
AU

RoHS FC C CE

600Mbps is the maximum theoretical communication speed at the physical layer via electric power lines (i.e. speed between Powerline devices) 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.

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