**Transmit Network Data via Existing Electrical Wires**
The Edimax HP-5102AC can transform 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-5102AC enables you to create a network environment easily and cost-effectively.

**Integrated Power Socket with Noise Filter**
With the Edimax HP-5102AC, 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-5102AC is plugged into a socket, you can still plug another electrical device into the HP-5102AC 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.

**PowerLine Adapter Kit**
Included are two Edimax HP-5102AC adapters; everything you need to set up a powerline connection. One adapter connects to your router, and the other to your network device. Or, if you already have a powerline network established, you can use the HP-5102AC adapters for additional network devices. The Edimax HP-5102AC has a combo group/reset to automatically sync your HP-5102AC adapters into your network, and up to 8 powerline adapters can be used together across your home or office, using advanced 128-bit AES secure encryption.

**Key Features:**
- Easy plug-n-play setup and 128 bit AES security
- Maximum powerline speed of 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
- Integrated power socket with noise filter
## FEATURES & TECHNICAL SPECIFICATIONS

### Hardware
- 1 x Power jack
- 1 x Power socket
- 1 x 10/100Mbps Ethernet LAN port
- 1 x Group/Reset button
- LED indicators: power, Ethernet, powerline

### Standards
- IEEE 1901
- IEEE 802.3
- IEEE 802.3u
- HomePlug AC compliant

### Effect Data Rate
- TCP: Up to 95 Mbps effective throughput
- UDP: Up to 95 Mbps effective throughput

### Frequency Band
- 2-28MHz (with Mask)

### Modulation Schemes
- OFDM symbol modulation on line synchronization 1024/256/64/16/8-QAM, QPSK, BPSK, ROBO modulation

### Operating Range
- Up to 300 meters

### QoS
- 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

### Nodes
- Up to 15 slaves with 1 master, 16 total devices
- Max 8 bridged devices per station

### IC / Memory
- AR7420+1540
- 1MB Flash
- 8MB SDRAM
- 128-bit AES link encryption with key management

### Security
- Support for IPv4/IGMPv1,v2,v3 snooping
- Support for IPv6 and MLDv1, v2 snooping
- Max 16 source addresses and group members

### Power Outlet
- Line Voltage: 100 to 240VAC
- Noise Filter Insertion Loss: Up to 35dB at 1MHz – 40MHz

### Dimensions & Weight
- 102 x 64 x 43mm
- 184g

### Power Source
- 100-240VAC, 50-60Hz

### Certification
- CE, FCC, LVD

### POWER SETUP DIAGRAM

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