ALLNET ALL-HPNA3

Home Phoneline Networking Alliance 3
Ethernet Bridge

User's Manual

INTRODUCTION

This HomePNA to Ethernet bridge connects any Ethernet device to a high speed access device or to a Home Networking LAN for Internet access. This bridge brings you the newest Ethernet compatible technology that uses the telephone wiring as the network's physical wiring thereby eliminating the need to install new wiring. It is designed to operate on the telephone wire installed in homes.

This bridge allows you to connect PC's and Ethernet enabled devices, such as DSL Modem, PC, HUB and STB, to a Home Networking LAN by simply Plugging into the existing RJ-11 jacks.

Features

- Plug & Play

- Using existing phoneline to build a network

- Shares Internet access and streaming video

- 1 port HPNA connection compliant with

  HomePNA 3.1 standard

- 2 Standard 10/100 Fast Ethernet ports for connecting to Ethernet or DSL modem

- MDI/MDIX Auto Crossover Support

- QoS Priority Mapping Support

- QoS, TagVLAN, IGMP Snooping Support

- Statistic and Status Information Support

HARDWARE INSTALLATION

Parts Names and Functions

LED Indicators on the Rear Panel
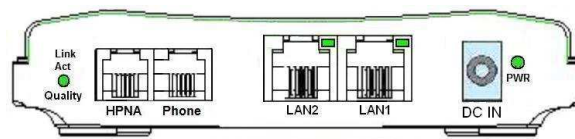
Ansch-luss	LED	Status		
		AN	**Blinkt**	**AUS**
DC IN	**PWR**	Powered by DC 5V – 1A	n/a	Not powered
LAN1	**Link Act**	Link	Receive or Transmit	Disconnect or Link fail
LAN2	**Link Act**	Link	Receive or Transmit	Disconnect or Link fail
HPNA	**Link Act**	Link	Receive or Transmit	Disconnect or Link fail
	Quality	Green: High Orange: Medium Red: Low		

Ports on the Rear Panel
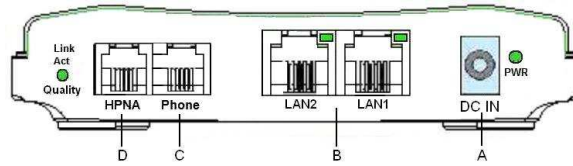
	Port Name	Type	Functions
A	**DC IN**	DC	Connects to the power adapter plug.
B	**LAN1 / LAN2 (Ethernet)**	RJ-45	Connects to Ethernet port on FTTH/xDSL Modem, Switch/HUB, PC and STB for Internet Access.
C	**Phone**	RJ-11	Connect to Phone
D	**HPNA**	RJ-11	Connect to other HPNA devices

Hardware Connections

1. Select a convenient location for the bridge near the PC or Ethernet device to which it will be connected. The bridge should be kept away from excessive heat.

2. Using one telephone wire to connect the **HPNA** port to RJ-11 jack on the wall. Using another telephone wire to connect the other **Phone** port to a telephone set (or connect the **Phone** port to "phone" port of splitter of ADSL modem).

3. Connect the **LAN1/LAN2** port to your Ethernet-equipped device.

4. Connect the power adapter to the **DC IN** port into a wall outlet.
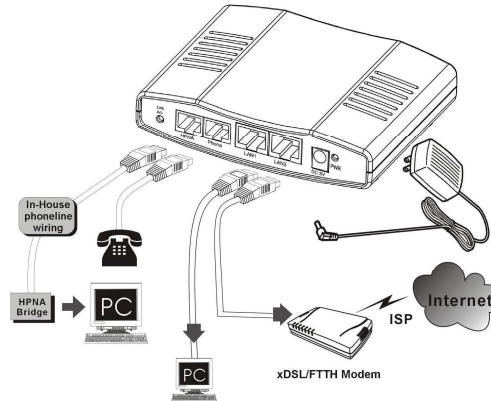
The figure above shows how to connect a cable modem to a home phoneline network. Follow the same steps to connect any Ethernet device such as a STB or PC, to a home phoneline network.

After properly connected the **LAN** port, **HPNA** port and the **DC IN** port, LED will be as:

PWR   ON
LAN Link/Act   ON
HPNA Link/Act   ON (Green or Orange)

For more information on LEDs, see section **"LED Indicators on the Rear Panel"**

TROUBLESHOOTING

The bridge has been designed to be a reliable and easy to use connection device. Please refer to the list below to aid in troubleshooting.

The Power (green PWR) LED is off.

- *Make sure the power adapter is properly plugged into a live electrical outlet.*

The LAN(Ethernet) LED is off.

- *Make sure the connection to LAN port is secure.*

- *The Ethernet device to which you are connected should be powered on and properly configured.*

The HPNA Link/Act/Quality LED is off or red

- *Make sure the connection to HPNA port is secure.*

- *HPNA device to which you are connected should be powered on and properly configured.*

- *Make sure the quality of phoneline connector and cable is good.*

SPECIFICATIONS

Standards
- IEEE 802.3 10BaseT Ethernet compliant
- IEEE 802.3u 100BaseT Fast Ethernet compliant
- HomePNA 3.1 specifications compliant

Data Rates
- HPNA: 192Mbps (36 - 68MHz)
- Ethernet: 10/100 Mbps

Power Consumption
- 5V – 1A DC IN, Less than 3 watt

Certifications
- CE, FCC Part 15

LEDs
- Power
- Ethernet Link/Activity
- HPNA Link/Activity/Quality

Connectors
- Two RJ-11, one for connecting with HomePNA device, and one for telephone bypass
- Two RJ-45 for 10/100 Ethernet

Cables
- Home Networking: standard home phone wire
- Fast Ethernet: CAT5 or better UTP

EC - Declaration of Conformity

for the following equipment:

ALL-HPNA3

HPNA3 over Phoneline Ethernet Bridge

The safety advice in the document accompanying the products shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device.

The ALLNET ALL-HPNA3 conforms to the Council Directives of EC EMC 2004/108/EC with CE marking requirement. This equipment meets the the following conformance standards:

EN 55022:2006+A1:2007, Class B	EN 55024:1998+A1:2001+A2:2003
AS/NZS CISPR 22: 2006, Class B	IEC 61000-4-2:2008 ED.2.0
EN 61000-3-2:2006, Class A	IEC 61000-4-3:2006+A1:2007 ED.3.0
EN 61000-3-3:1995+A1:2001+A2:2005	IEC 61000-4-4:2004 ED.2.0
	IEC 61000-4-5:2005 ED.2.0
	IEC 61000-4-6:2008 ED.3.0
	IEC 61000-4-8:2001 ED.1.1
	IEC 61000-4-11:2004 ED.2.0

This equipment is intended to be operated in all countries.

This declaration is made by

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Germering, 05.05.2012