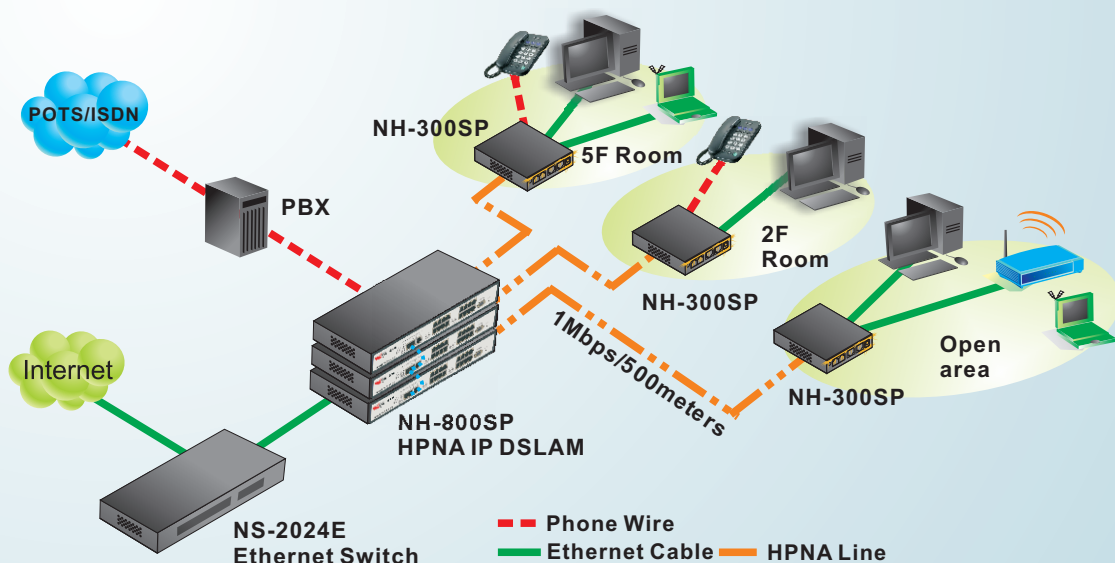


### General Description

The Netsys HPNA Ethernet Modem (NH-300SP) provides a cost effective, standards-based HPNA Modem for home phoneline networking, hotel/motel, and multi-tenant applications. The NH-300SP is compatible with Netsys HPNA Products and other standards-based HPNA products such as Broadband Routers with integrated HPNA capabilities. The NH-300SP is HPNA 1.1 compliant and comes ready to plug and play out of the box for distances up to 1,600 feet (500m) at the default line rate of 1Mbps.

The HPNA Ethernet Modem operates over existing phone lines or network grade cable (1 twisted pair) and features dual Ethernet ports and a built-in POTS/ISDN splitter to allow telephone (POTS/ISDN/PBX) service over the same phone line or cable. The NH-300SP's Line port is connected to RJ-11 telephone jack of the 2-wire twisted pair phone line (or network cable) connection extending throughout the home or from the central office location. The Phone port connects Ethernet ports connect to a NIC, hub, switch, or other network devices including IP phones.

### Application Diagram

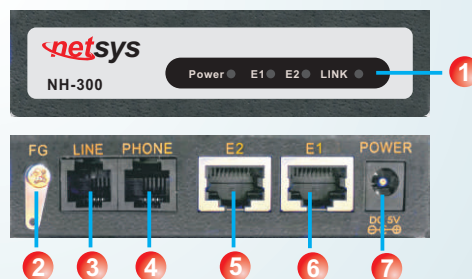


Maximum Distance  
up to 500m(1600ft)

Speed up to  
**1MB**

HomePNA  
**1.0/1.1**

### Detailed View



- NH-300SP:**
1. LED Indicators
  2. Frame Ground
  3. Line Port
  4. Phone Port
  5. Ethernet Port(E2)
  6. Ethernet Port(E1)
  7. Power Jack(DC 5V In)

**Order information:** NH-300SP (2 Ethernet HPNA Modem with Splitter)

For more product information, visit us on the web [www.netsys.com.tw](http://www.netsys.com.tw)

**DATA SHEET**

# NH-300SP

## 2Ethernet HPNA modem with splitter



### Key Features & Benefits

- Compliant with 1M HomePNA V1.0 / 1.1 Specifications
- Compliant with IEEE 802.3 & 802.3u Standard
- Support 802.1x and back pressure flow control
- Driver power up to 500 meters with 24 gauge phone wire
- Build in POTS / ISDN filter (splitter)
- Connects 10/100Base-T to HomePNA
- Provides two RJ-11 for HomePNA & Line port and two RJ-45 for 10/100Base-T port
- Support Auto MDIX for Fast Ethernet ports
- Support 4 wires pass through phone set
- Supports 1522 Long packet
- Supports broadcast storm filtering
- Plug & Play, no software require
- No need to Re-wire for RJ-11.
- Uses existing phone jacks
- EMI certified by FCC & CE Class B

### Product Specification

Standards:	IEEE802.3/802.3u standard Compliant with 1M Home PNA V1.0 / 1.1 Spec.
Interfaces:	2 x RJ-45 10/100Mbps Ethernet port (Auto MDIX) 2 x RJ-11 for 1Mbps HomePNA (one for splitter)
Flow Control:	Back pressure
Filter/Forward Rate:	148,800 packets/second for 100Mbps 1,488 packets/second for 1Mbps
MAC Address Table:	2K
Switch method:	Store and forward
LED Indicator:	1 x Power LED 2 x Link/Active Status for Ethernet port 1 x Link Status for HPNA port
Band Pass Spectrum:	5.5Mhz ~ 9.5Mhz
Splitter Spectrum:	0 ~ 1.1Mhz
Operating Temperature:	0°C~ 50°C (32°F ~ 122°F)
Storage Temperature:	-20 °C~ 70°C (-4°F ~ 158°F)
Humidity:	10 to 90% (non-condensing)
Dimensions:	95mm x 110mm x 24mm
External Power Adapter:	Input: AC 100-240 volts / 50-60Hz Output: DC 5V / 1A

**Order information:** NH-300SP (2 Ethernet HPNA Modem with Splitter)

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