

**10Mbps  
HomePNA2.0  
Ethernet Bridge**



**PET-2100**

**User's Guide**

# FC STATEMENT

## This device complies with **Part 15** of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

## This equipment complies with 47 CFR **Part 68** Rules.

On the bottom of this equipment is label that contains, among other information, the ACTA registration Number and Ringer equipment Number (REN) for the equipment. If requested, this information must be given to the Telephone Company.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have those entire devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you're local telephone company to determine the maximum REN for you're calling area. If your telephone equipment cause harm to the telephone network, the Telephone Company may discontinue your service temporarily. If possible, they will notify you in advance. But in advance notice isn't practical; you will be informed of your right to file a complaint with the ACTA.

Your telephone company may changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to given you and opportunity to maintain uninterrupted telephone service. If you experience trouble with this telephone equipment, please contact the following address and phone number for information on obtaining service or repairs. The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning. This equipment may not be used on coin service provide by the telephone company. Connection to party lines is subject to state tariffs

**CAUTION:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

# INTRODUCTION

The HomePNA2.0 Switch PET-2100 enables you to set up your private network at home with your existing telephone lines.

***No additional network wiring is necessary.*** You may just find a RJ-11 phone jack in the wall, put the phone line plug into the jack, and you can then be ready to access the broadband Internet.

***No extra driver is necessary.*** No driver, no setting, just link. Simply plug and play.

Via the RJ-45 Ethernet ports, you can connect PET-2100 with Ethernet-interface devices such as Set-Top-Box, Camera Server, Switch/Hub, and so on. The high-speed of 10Mbps will bring you to enjoy the Video-On-Demand (VOD) services or the Media-On-Demand (MOD) services.

With PET-2100, SOHO can even quickly extent or flexibly change the existing LAN environment. No re-wiring more and no more trouble.

# FEATURES

- ✧ 10Mbps HomePNA Port as Home Network Backbone by Using Existing Phone Lines.
- ✧ Two 10/100M Fast Ethernet Ports for ADSL Modem, Cable Modem, and Ethernet Terminals such as PC, Set-Top-Box, Switch/Hub, and so on.
- ✧ Maximal Distance up to 1000 Feet on HomePNA Port.
- ✧ Plug & Play.
- ✧ Compact Size Design.

# SPECIFICATIONS

- ✧ Network Standards
  - HomePNA V2.0
  - IEEE802.3
  - IEEE802.3u
  - IEEE802.3x
- ✧ Operating System
  - Without Limitation
- ✧ Connectors
  - Ethernet : Two RJ-45 Ports
  - HomePNA : Two RJ-11 Ports, One for HomePNA, the Other One for Phone-Line Bypass
- ✧ DIP Switch
  - Two DIP Switches, “1” for Transmission Priority Setting, and “2” for Transmission Speed Setting
- ✧ Transmission Speed
  - Up to 10Mbps
- ✧ Transmission Distance
  - Up to 1000 Feet
- ✧ Interface Speed
  - 10/100Mbps Fast Ethernet
- ✧ Indicators
  - **“Power”**, the LED will Light up When the Power Is On
  - **“HomePNA Link/Activity”**, the LED will Illuminate When the Connection Is Successfully Running, and It will Flash When the Data Is Transmitting
  - **“Ethernet Link/Activity”**, the LED will Illuminate When the Connection Is Successfully Running, and It will Flash When the Data Is Transmitting

- ✧ Power Requirement
  - External Power Supply : Input 100 ~ 240 VAC, 50/60HZ ;  
Output 5 VDC
  - Consumption : < 6 Watts
- ✧ EMI/EMC
  - Comply with FCC Part 15
  - Comply with CE CISPR
  - Comply VCCI
- ✧ PTT Approval
  - Comply with FCC Part 68
  - Comply with JATE
- ✧ Environmental Conditions
  - Operating Temperature : 0°C ~ 40°C (32°F ~ 104°F)
  - Storage Temperature : -10°C ~ 65°C (14°F ~ 149°F)
  - Operating Humidity : 10% ~ 95%, Non-condensing
- ✧ Physical Dimension
  - 114mm (W) x 67mm (D) x 25mm (H)
- ✧ Unit Weight
  - 105g

## **P**ACKAGE CONTENTS

1. One HomePNA2.0 Switch PET-2100
2. One RJ-11/RJ-11 Connecting Line
3. One RJ-45/RJ-45 Connecting Line
4. One 110~240VAC 2A AC Adapter
5. User's Guide in Electronic PDF File

# INSTALLATION

1. Open the carton and make sure yourself the stuffs inside are as same as the PACKAGE CONTENTS listed above. Please contact your dealer for replacing in case any item is missing or damaged.
2. Take out the PET-2100 and power it on with the AC Adapter.
3. Take out the RJ-45/RJ-45 connecting line. Plug one end into the “**LAN1**” port on the rear panel of the PET-2100 and connect the other end with your ISP access node, such as the ADSL modem or the Cable modem.
4. Connect the other end of the RJ-11/RJ-11 line from the in-line telephone splitter or the splitter port of the ADSL modem with the “**PHONE**” port on the rear panel of the PET-2100. (In Cable modem’s cases, you may leave the “**PHONE**” port free from any other connection or just connect it with a telephone extension. For those cases without splitter, the connection will be as same as Cable modem’s.)
5. Take out the last RJ-11/RJ-11 line and simply plug one end into the RJ-11 phone jack in the wall at your home and connect the other end with the “**HPNA**” port on the rear panel of the PET-2100. The high-speed broadband home network is then successfully established.
6. For the “**LAN2**” port on the rear panel of the PET-2100, you may connect it with the Ethernet port of your PC, Set-Top-Box, or Switch/Hub.
7. To connect with your home network in the other rooms, just simply plug one end of the RJ-11/RJ-11 line into the phone jack in that room and link the other end with your PC through another PET-2100 or a PUA-2100 USB Adapter.

You may then share the broadband Internet at any place in your house.

8. To connect with the Set-Top-Box or Camera Server in any room, procedures are similar to previous step. You may simply plug one end of the RJ-11/RJ-11 line into the phone jack in that room and link the other end with the Ethernet port of your Set-Top-Box or Camera Server through a PET-2100.
9. For SOHO, using PET-2100 and RJ-11/RJ-11 lines, you can quickly extent or flexibly change the existing LAN environment in your office by simply plugging the RJ-11/RJ-11 line into any phone jack.

## CAUTIONS

- ✧ The default setting of the DIP switch is “Lo” for “1” and also “Lo” for “2”. It is not necessary to make any adjustment in the beginning.
- ✧ You may change the position of DIP switch “2” from “Lo” to “Hi” to improve the transmission speed in case the phone line condition is good.
- ✧ For the cases of installation more than two PET-2100, you may remain the DIP switch “1” of the PET-2100 which linked directly with the ADSL modem or the Cable modem unchanged at position “Lo” and then change the position of this switch of the other PET-2100 from “Lo” to “Hi”. The transmission performance will therefore be enhanced.

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