

USB

QTK99-F036

FCC ID: M74UHFK

1M Home PNA

& 10/100

FAST ETHERNET

***User Guide***

M73-APO08-050

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## REGULATORY STATEMENTS

### Part15, Class B

#### FCC ID:MQ4UFE1K

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interface, and
2. This device must accept any interface received, including interface that may cause undesired operation. 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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

***⚠ Changes or modifications not expressly approved by party responsible for compliance could void the user the user authority to operate the equipment.***

## INTRODUCTIONS

The USB 1M HomePNA & 10/100 Fast Ethernet brings the latest technology of instant connectivity to multiple PCs over a home's existing telephone lines. You can network any notebook computer by connecting it to any standard phone line. No switches, hubs, or even any additional cables is needed - the network runs on standard home-grade telephone wires just like the ones you use everyday.

This USB device is equipped with two standard RJ-11 telephone ports and a 10/100 dual-speed Fast Ethernet port. You can connect to any 1Mbps home phone network or any 10BaseT/100BaseTX network without swapping devices or running multiple adapters at once. The adapter connects to your Windows 98 computer via USB (Universal Serial Bus), you can enjoy the advantage of true plug-and-play connections through a single interface.

You can share Internet access via a dial-up, cable modem or DSL connection, as well as files, printers, and CD-ROM drives at 1Mbps without interrupting regular telephone service. The home phone networking runs on regular telephone cables, so there's no extra hardware to buy. Just plug it into any standard wall jack and you're networked!

The USB 1M HomePNA & 10/100 Fast Ethernet complies the HomePNA specification which lets your phone line carry computer data as well as regular telephone voice service. Every standard telephone jack in the home is capable of hosting a PC - you can connect up to 25 computers, thus transforming the home's telephone wiring into an easily expandable network.

## Features

- Connects to a network using your existing telephone Line -- No additional hubs or network cables needed
- Works with any PC with a USB port
- Supports Microsoft Windows 98
- 1Mbps transfer rate over telephone lines
- Dual-speed RJ-45 port automatically detects Ethernet or Fast Ethernet cabling speed
- External USB network adapter with 2 RJ-11 modular telephone ports and 1 RJ-45 auto-sensing 10BaseT/100BaseTX port
- USB cable included – true plug & play
- HomePNA compliant
- Connects up to 25 devices together on your home phone network

## About Home Phone Networking Technology

The USB 1M HomePNA & 10/100 Fast Ethernet utilizes a technology known as Frequency Division Multiplexing (FDM) which essentially divides the data travelling over the phone lines into separate frequencies - one for voice, one for high-bandwidth net access such as DSL, and one for the network data. These frequencies can coexist on the same telephone line without impacting one another.

The 1 Megabit-per-second (one million bits-per-second) data rate is 18 times that of the fastest analog modems available, which run at 56Kbps. Even high-speed modem, xDSL, and ISDN connections will perform at full speed on a home network.

*Note: Because of the limitations of standard telephone cables, Home Phone Networking devices require that your cabling does not exceed a total length of 500 feet for your entire network.*

## **System Requirements**

- A Pentium® processor-based personal computer 166MMX or above.
- At least 16 MB of RAM.
- One USB port well installed and enabled.
- Microsoft Windows 98.

## **Specifications**

### **Network Standard**

- HomePNA specification 1.1
- IEEE 802.3 for 10BaseT
- IEEE 802.3u for 100BaseTX
- Standard phone wiring
- CAT 3/CAT 5 UTP, 100ohm STP cable up to 328ft/100M

### **Data Transfer Rate**

- Up to 1 Mbps of HomePNA data transfer
- 10/100 Mbps<sup>1</sup> of LAN data transfer
- Doubled data transfer rate in Full duplex mode

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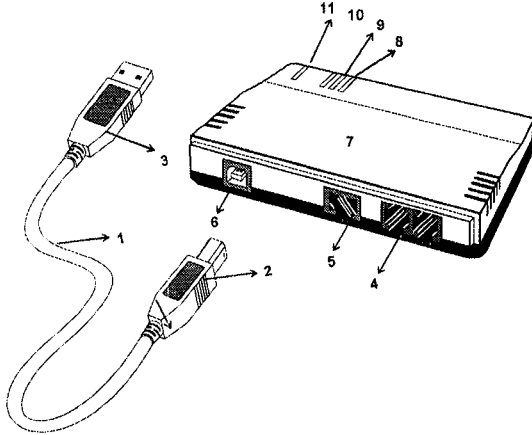
<sup>1</sup> CAT5 cable is required for 100M data transfer rate

## Supported Operating Systems

- Windows 98
- Windows 2000 ready

## Parts Names and Functions

1. **USB Connection Cable:** connects the USB 1M HomePNA & 10/100 Fast Ethernet to the USB host port of your computer.



2. **USB A Type Connector**
3. **USB B Type Connector**
4. **RJ-11 telephone ports**
5. **RJ-45 Port**
6. **USB B Type Port**
7. **USB 1M HomePNA & 10/100 Fast Ethernet**
8. **100M LED** indicator: glows green when this adapter is linking to another 100 Mbps Fast Ethernet.
9. **10 LED** indicator: glows green when this adapter is linking to another 10 Mbps Fast Ethernet.