

1 Mbps HomePNA Switch

April 2001

1 Mbps MTU/MDU Broadband Multimedia Solution

Robust, Scalable , and Remote Network Manageable

*Quick installation, Easy set-up, and Fast
service start-up for subscribers ...*

Simply using the phone-line ...

*The Most Adaptive and Cost-Effective
MTU/MDU Solution.*

INTRODUCTION

HOME PNA SWITCH PLS-8820 / PLS-8821 IS DEDICATED FOR SERVICE PROVIDERS THAT WOULD LIKE TO PROVIDE COST-EFFECTIVE WIDEBAND INTERNET ACCESS SERVICES.

ROBUSTNESS IS THE AIM FOR THE DESIGN DUE TO THE NATURE OF HOME PNA TECHNOLOGY IN THE NOISY ENVIRONMENT OF APPLICATION. EVEN IN THE ENVIRONMENT WITH CROSS-TALK NOISE, ROBUST DESIGN WILL ENABLE THE SWITCH TO SURVIVE WITH ACCEPTABLE THROUGHPUT. THE SWITCH IS ALSO A MANAGEABLE, SCALEABLE AND UPGRADEABLE SOLUTION THAT HELPS SERVICE PROVIDERS TO PROVIDE WIDEBAND INTERNET SERVICES TO THE PUBLIC AT RELATIVELY LOW INVESTMENT.

BOOTH PLS-8821 AND PLS-8820 HAVE 14 10MBPS HPNA PORTS, 2 FAST ETHERNET PORTS, AND 2 CONSOLE PORTS. PLS-8821 PROVIDES THE CAPABILITY OF REMOTE NETWORK MANAGEMENT.



Model : PLS-8820 / PLS-8821

FEATURES

- Robust to Noisy Environment
- 14-Port 1Mbps Connection Comply with HomePNA1.1 Standard
- Two 10/100M Fast Ethernet Ports for Expansion or Link to Switch/Hub/Router or Modems
- Adaptive PNA Driver to Optimize Performance
- Windows-Based Network Management Support
- Port Based VLAN Security Support
- Remote Network Management
- Remote (or Local) Firmware Upgrade
- 19" Rack-Mount Design

SPECIFICATIONS

➤ Network Interface

- 1 Mbps HomePNA1.1 Standard Compliant
- IEEE 802.3u 100M Fast Ethernet
- IEEE 802.3 10M Ethernet
- 10/100Mbps Auto-Negotiation Support
- Support Port-based VLAN and IEEE 802.1q Tag VLAN

➤ Network Management

- Console Port: Mini-DIN (Locally)
- Windows Based Network Management Utility
- Optional Remote Network Management (Via Internet or Ethernet Port, by Telnet Protocol)
- Password for Access Protection
- Data Rate Adjustment of PNA Port
- Transmission Power Adjustment of PNA Port
- Noise Threshold Adjustment of PNA Port
- Port Enable/Disable
- Terminal ID Filtering
- Terminal ID Filtering
- SNMP Support

➤ Connectors

- Ethernet : 2, RJ45 Jack
- HomePNA Port : 14 Ports, Two RJ45 per Port, One for HPNA, Another for Phone-line Bypass
- Console Port : 8-Pin Mini-DIN Jack

➤ Indicators

- Power
- HomePNA Link/Activity
- Ethernet Link/Activity
- Switch ID Display (7-segment LED, to identify a switch by numbering in a cascade system)

➤ Terminal Devices

- USB Adapter
- PCI Adapter
- Ethernet/PNA Bridge

➤ Power Requirement

- Internal Switching Power Supply
- Full Range 100-240VAC, 50/60Hz
- Power Consumption < 20 Watts

➤ EMI/EMC

- Comply with FCC Part 15 Class A
- Comply with CE CISPR 22
- Comply VCCI Class I

➤ Safety and Protection

- Comply with IEC-950
- Lighting Protection Comply with K.21

➤ 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