

ZyXEL AES-100 V2.00(AS.0)c00

Release Notes/Manual Supplement

Date: April 13, 2001

Congratulations on your purchase of AES-100 ADSL-Ethernet Switch. AES-100 is an ADSL (Asymmetrical Digital Subscriber Line) to Ethernet switch. It allows you to multiplex traffic from up to 16 ADSL lines to Ethernet network before it is forwarded to the Internet.

ADSL allows the coexistence of broadband data service and conventional voice service over the same telephone line. When deployed together with ZyXEL's ADSL modems, e.g., P642M, and WAN routers, e.g., P1400, the combination forms an integrated solution for providing broadband services to multiple tenant units such as apartments, hotels, offices and campus buildings.

The AES-100 has two slots for the ADSL to Ethernet multiplexer modules. This design provides the flexibility for you to install as few as a single module for the initial deployment and yet still has room to grow as the demand increases.

Each ADSL to Ethernet multiplexer module aggregates traffic from 8 lines to an Ethernet port.

The integrated splitters eliminate the need to use external splitters to separate voice-band and ADSL signals.

This 10/100 Mbps Ethernet port connects the AES-100 to an Ethernet network. With the Ethernet as the backbone, you can create a network that provides ADSL service to hundreds of subscribers.

This document describes the features in the ZyXEL AES-100 product for its V2.00(AS.0)c00 release. The known problem list section describes problems currently under investigation and enhancement during our internal test.

Version:

F/W Version: V2.00(AS.0) | 6/12/2001

Features:

1. 10/100 Mbps auto-sensing Ethernet port.
2. ADSL ports support G.dmt and G.lite.
3. Support IEEE 802.1d transparent bridge.
4. ADSL ports support RFC 1483 Bridge Mode.
5. Support port-based VLAN.
6. Firmware upgrade and configuration backup/restore.
7. Remote manageable.
8. SNMP manageable.
9. Thermal monitoring to notify over-heat.

Wish List:

1. VC-based multiplexing is not support in this version.
2. SNMP management objects about ADSL are not support in this version.
3. CI commands for changing VPI/VCI values of ADSL ports are not support in this version.
4. Static filtering of IEEE 802.1d is not support in this version.
5. Spanning tree protocol is not support in this version.

Know Problem List:

1. When the upstream rate of an ADSL port is over **832** Kbps, the upstream bit error rate may be greater than **10⁻⁷**.

New Features :

There are some new features and changes to previous versions in this version. Here lists these features and changes.

1. 10/100 Mbps auto-sensing Ethernet port.
2. Over-heat/over-heat-over SNMP traps and alarm LED support. After environment test, we set **80** °C to be the over-heat threshold temperature, and set **75** °C to be the over-heat-over threshold temperature.
3. Configurable of 10/100 Mbps Ethernet port.
4. IGMP snooping.

Bugs Fixed:

1. Ethernet ifSpeed of interface MIB is corrected to show actual speed.

New CI Commands to Previous Versions:

There is some new CI commands in this version. Here lists these commands and the details can be found in AES-100 User' Guide.

1. Bridge Configuration Commands Group:
 - **mfilter** command : show the status of IGMP snooping.
2. Ethernet Configuration Commands Group:
 - **ethernet set auto** command : enable/disable auto-negotiation mode of Ethernet port.
 - **ethernet set duplex** command : set duplex mode used in auto-negotiation OFF of Ethernet port.
 - **ethernet set speed** command : set speed used in auto-negotiation OFF of Ethernet port .
 - **ethernet status** command : display Ethernet port status.

SNMP Related Information:

1. OIDs:
 - sysObjectID : 1.3.6.1.4.1.890.1.3.1
 - systemTraps : 1.3.6.1.4.1.890.1.999
 - systemTemperature : systemTraps.2
2. Enterprise Trap IDs:
 - overheat trap : 3
 - overheatOver trap : 4
3. Support Traps:
 - Cold start.
 - ADSL ports link up/down.
 - Authentication failure.
 - Overheat/overheatOver.

Forget Your Management Password

The AES-100 requires users input the management password during console or telnet login. To manage the AES-100, the system administrator must remember the management password. If the password is forgotten, please contact ZyXEL.
