FINAL

ISA-HUB-KT

Evaluation Kit for the Am79C981 and Am79C987 Devices

DISTINCTIVE CHARACTERISTICS

- **Modular, expandable PC ISA/EISA bus compatible server hub card based on AMD's HIMIB™ and IMR+™ devices**
- **Fully compatible with the IEEE 802.3 Layer Management for 10 Mb/s Baseband Repeaters (Repeater Management Standard)**
- **Compatible with the Novell's Hub Management Interface (HMI); HMI driver included**
- **HIMON provides user friendly display and statistics monitoring features, and simple menu-driven diagnostic and configuration capabilities**
- **Designed to be independent of network adapter card used in the file server**
- **Supports eight 10BASE-T ports and one AUI port**
- **Provides Link Status LED for 10BASE-T ports**

GENERAL DESCRIPTION

The ISA-HUB-Kit is designed to serve as a repeater application example as well as an evaluation vehicle for the AMD's IMR+ (Am79C981) and HIMIB (Am79C987) devices. It is a nine port (eight 10BASE-T and one AUI), manageable, expandable 10BASE-T Ethernet Repeater card, and is fully compatible with the IEEE 802.3 Repeater Management Standard. The ISA-HUB card is intended for use in IBM PC ISA and EISA bus compatible machines. The kit includes all the necessary hardware, software and documentation to build a fully managed 9-port repeater. When installed in a file server, the ISA-HUB card, in conjunction with a network adapter card (such as NE2100 or NE1500T), provides direct file server to node connectivity.

The ISA-HUB card is designed to be modular and expandable. Up to eight cards can be cascaded to support 64 10BASE-T ports.

The HIMON (HImib MONitor) program is a menu driven, PC (MSDOS) software program that allows the user to monitor and program various registers in the HIMIB and IMR+ devices.

The ISA-HUB card is fully compatible with the Novell Hub Management Interface (HMI) specification. An HMI driver is included as a part of the kit. The card is designed to be independent of the network adapter card used in the file server. File server connection to the network is accomplished by connecting the adapter card to one of the ISA-HUB ports.

The ISA-HUB-Kit is composed of the following items.

- ISA-HUB ISA/EISA bus compatible adapter card
- HIMON evaluation program
- Novell certified HMI compliant driver, object code
- Novell HUBCON Netware Loadable Module (NLM) executable
- User's Guide and Reference Manual
- Telco cable assembly
- RJ45 cluster bar (8 ports)
- AUI connector assembly (includes PC/AT bracket and ribbon cable)
- Inter Module Expansion (IMX) bus ribbon cable and connector assembly
- IMR+ and HIMIB datasheets (PID# 17306A and 17305A)
- AMD's IEEE 802.3 Repeater Technical Manual (PID# 17314A)

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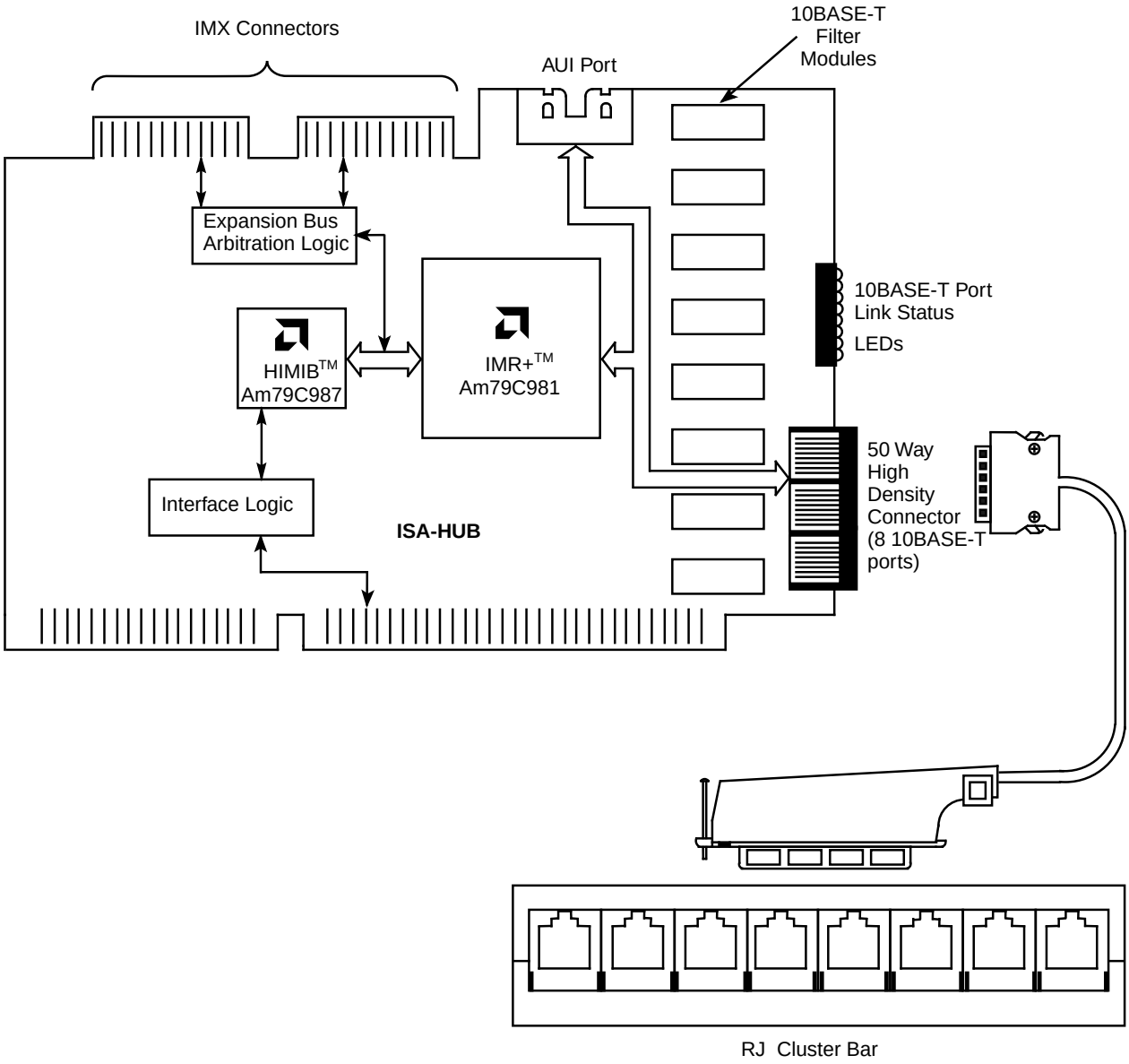
BLOCK DIAGRAM



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