Overview of the AccessPro PC Card

The AccessPro PC card is a full-featured, multiprotocol router card that installs in IBM or compatible PCs equipped with either an industry-standard architecture (ISA) bus or an extended industry-standard architecture (EISA) bus.

The AccessPro PC card provides a connection between remote office LANs and main or regional LANs over synchronous serial or Integrated Services Digital Network (ISDN) Basic Rate Interface (BRI) lines.

The AccessPro card is available in four models, as follows:

- Model AP-EC, with one Ethernet port, one synchronous serial port, and one asynchronous serial auxiliary port

- Model AP-RC, with one Token Ring port, one synchronous serial port, and one asynchronous serial auxiliary port

- Model AP-EBC, with one Ethernet port, two synchronous serial ports, one ISDN BRI port, and one asynchronous serial auxiliary port

- Model AP-RBC with one Token Ring port, two synchronous serial ports, one ISDN BRI port, and one asynchronous serial auxiliary port

Features

The AccessPro card has the following features:

- Complete multiprotocol router functions

- Installs in standard PC ISA-bus or EISA-bus slots

- 2 megabytes (MB) of primary memory, using dynamic random-access memory (DRAM) single in-line memory modules (SIMMs)

- 32-kilobyte (KB) nonvolatile random-access memory (NVRAM) for configuration storage

- Two serial ports for connection to a channel service unit/digital service unit (CSU/DSU) or protocol analyzer

- Data terminal equipment/data communications equipment (DTE/DCE) auxiliary port

The AccessPro card supports the following feature sets:

- IP Routing

- IP/IPX Routing

- Desktop

- Enterprise

The routing functions of the AccessPro card are separate from the functions of the PC. The AccessPro card has its own microprocessor and derives only power and ground from the host PC. The PC's CPU processing speed and normal operation is not impacted since the AccessPro operates independently from the PC.

Model AP-EC and Model AP-RC AccessPro cards consist of an ISA-bus card with an asynchronous serial auxiliary port, a synchronous serial WAN port, and either an Ethernet 10BaseT port or an RJ-45 Token Ring port for a LAN connection.

Model AP-EBC and Model AP-RBC AccessPro cards consist of an ISA-bus card with an asynchronous serial auxiliary port, a synchronous serial WAN port, and either an Ethernet 10BaseT port or an RJ-45 Token Ring port for a LAN connection. An attached daughter card carries an additional synchronous serial port and an ISDN BRI port.

The serial WAN connection uses a proprietary, 60-pin connector. The Ethernet, Token Ring, and BRI ports use unshielded twisted-pair (UTP) cable with a registered jack (RJ-45) connector.

An RJ-45 asynchronous auxiliary port is provided for connection to data terminal equipment (DTE), such as a CSU/DSU or protocol analyzer.

Figure 1-1 shows the Model AP-EC AccessPro card, Figure 1-2 shows the Model AP-RC AccessPro card, and Figure 1-3 shows the AccessPro card with an installed daughter card (Model AP-EBC and Model AP-RBC).

Warning   This card is approved only for installation in a PC and with attachments that are either type approved for such apparatus or covered by a general approval. (To see translated versions of this warning, refer to the appendix "Translated Safety Warnings.")
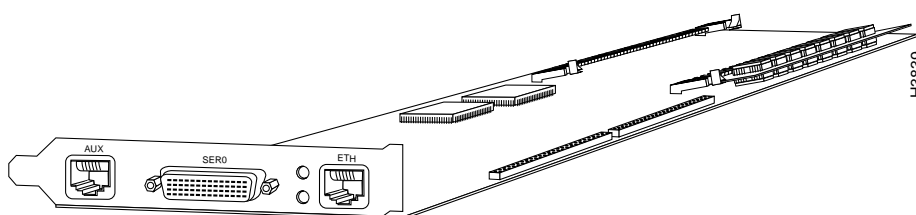
Figure 1-1   AccessPro Card, Model AP-EC

Figure 1-2   AccessPro Card, Model AP-RC
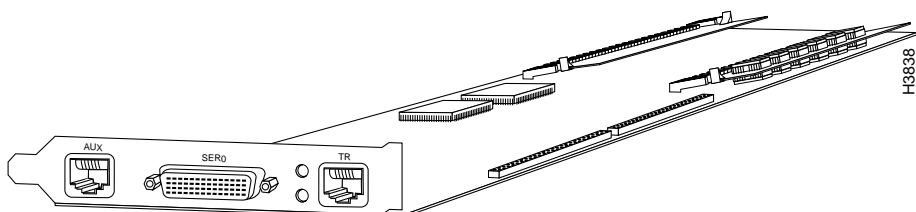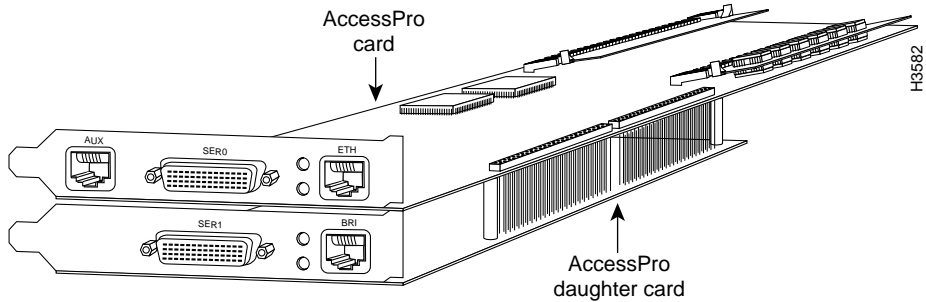
Figure 1-3   AccessPro Card with Daughter Card (Model AP-EBC Shown)

Specifications

Table 1-1 lists the specifications for the AccessPro card.

Table 1-1   Card Specifications

Specification	Description
Dimensions (H x L)	4.8 x 13.3" (12.2 x 33.8 cm)
Power requirements	3.0A @ 5V, 0.5A @ ±12V
Processor	20-MHz Motorola 68EC030
Memory	2-MB primary memory (expandable to 4, 6, 10, or 18 MB) 4-MB Flash memory (expandable to 8 MB), 32-KB NVRAM
Network interfaces	1 Ethernet and 1 synchronous serial (Model AP-EC, 1E1T) 1 Token Ring and 1 synchronous serial (Model AP-RC, 1R1T) 1 Ethernet, 2 synchronous serial, and 1 BRI (Model AP-EBC) 1 Token Ring, 2 synchronous serial, and 1 BRI (Model AP-RBC)

Specification	Description
Ethernet interface	IEEE[1] 802.3 10BaseT (RJ-45)
Token Ring interface	IEEE 802.5 (RJ-45)
Synchronous serial interfaces	EIA/TIA-232[2], EIA/TIA-449, V.35, X.21 (NRZ/NRZI[3] and DTE/DCE) EIA-530 (NRZ/NRZI and DTE) All serial cables use a DB-60 chassis connector.
BRI	ISDN basic rate (RJ-45) on Model AP-EBC and Model AP-RBC
Auxiliary port	Asynchronous serial (RJ-45, EIA/TIA-232-compatible)
Operating environment	41–104°F (5–40°C)
Nonoperating temperature	–40–185°F (–40–85°C)
Operating humidity	5–95%, noncondensing
Certification	Complies with FCC Class A, Part 15, Subpart J

1. IEEE = Institute of Electrical and Electronics Engineers.
2. EIA/TIA-232 and EIA/TIA-449 were known as recommended standards RS-232 and RS-449 before their acceptance as standards by the Electronic Industries Association (EIA) and Telecommunications Industry Association (TIA).
3. NRZ = nonreturn to zero; NRZI = nonreturn to zero inverted.

Warning   Ultimate disposal of this product should be handled according to all national laws and regulations. (To see translated versions of this warning, refer to the appendix "Translated Safety Warnings.")

VCCI Class 2 Compliance Statement

This equipment is in the 2nd Class category (information equipment to be used in a residential area or adjacent area thereto) and conforms to the standards set by the Voluntary Control Council for Interference by data processing equipment and electronic office machines aimed at preventing radio interference in such residential area. When used near a radio or TV receiver, it may become the cause of radio interference. Read the instructions for correct handling.

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