IBM Sales Manual (US) - Document 3172

Overview 3172 IBM Interconnect Controller

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1 IBM U.S. Product Life Cycle Dates

Type	Model	Announced	Available	Marketing Withdrawn	Replaced By
3172-001		1989/10/24	1990/09/28	1994/03/25	3172-003
3172-002		1990/09/05	1991/12/27	1994/07/08	3172-003
3172-003		1992/06/16	1992/09/25	1998/12/31	2216-400
3172-390		1995/07/10	1995/08/25	1997/07/25	None

2 Abstract

The IBM 3172 Interconnect Controller is a high-speed, channel-attached gateway optimized for attachment of local area networks (LANs), synchronous data link control (SDLC) networks, and Frame-Relay Networks to IBM host processors. In addition, the 3172 can provide the NCP Server function to activate, manage, and complement the 3745 Communication Controller with NCP.

Model Abstract 3172-001

(For IBM US, No Longer Available as of March 25, 1994)

The 3172-001 is a Micro Channel*/80386-based intelligent controller that can operate as a LAN-to-host gateway and as a remote Channel-to-Channel (CTC) controller. When the 3172 is featured to operate as a CTC controller, the 3172 provides host attachment via the Parallel channel or the ESCON* channel and can be featured for up to four TP Adapters. Four LAN attachments and two channel attachments give the 3172 Interconnect Controller the flexibility and performance required in today's heterogeneous networks.

Model Abstract 3172-002

(For IBM US, No Longer Available as of July 8, 1994)

The IBM 3172 Model 2 is a member of the IBM 3172 Interconnect Controller family. With the inclusion of the new, more powerful, Intel 80486 microprocessor, the 3172 Model 2 provides for improved performance and capacity over the 3172-001. By supporting the 100 Mbps Fiber Data Distributed Interface (FDDI), the 3172 Model 2 provides host gateway connectivity for high function

engineering and scientific workstations as well as providing host connectivity for high-speed FDDI backbone networks.

Model Abstract 3172-003

(For IBM US, No Longer Available as of December 31, 1998)

The IBM 3172 Interconnect Controller is a Micro Channel*/ 80486SX 25 MHz Processor based intelligent controller. Three optional processors are available: the 50 MHz 80486DX 1995), the Pentium** 66 MHz, or the Pentium 90 MHz. The 3172-003 provides an attractive price and performance solution for the following environments:

- IBM 3172 Interconnect Controller Program (ICP) Version 3 Release 4 supporting TCP/IP and SNA protocols across Token-Ring, Ethernet and FDDI LANs
- TCP/IP Offload for VM and MVS that reduces host cycles across Token-Ring, Ethernet, ATM, or FDDI LANs
- Multiprotocol Networking Software Solution (MPNS) that reduces host cycles and allows connectivity across Frame-Relay networks to TCP/IP and for bridging SNA, NetBIOS, IPX, and Banyan Vines from Token-Ring to Frame-Relay networks
- LAN File Services/Enterprise Systems Architecture (LFS/ESA) for VM and LAN Server for MVS, client/server solutions for clients on OS/2* LANs
- LAN Resource Extension Services (LANRES)/VM and LANRES/MVS, which allows NetWare** users on Token-Ring or Ethernet LANs access to IBM System/390* or System/370* host DASD, print server, and LAN administrative services
- 3172 SNA Communications Program, which provides users the ability to access VTAM*/SNA host applications from Token-Ring, Ethernet, ATM, and FDDI LANs, and Frame-Relay and SDLC networks.

Model Abstract 3172-390

(For IBM US, No Longer Available as of July 25, 1997)

The IBM 3172 Interconnect Controller Model 390 NCP Multinetwork Server Solution, also referred to as the NCP Server, provides a low-cost and flexible complement for the 3745 Communication Controller with NCP. The NCP Server activates, manages, and complements the NCP on any of your 3745 models. Some of the components of this solution are an operating system, VTAM, and NetView. Although actually communicating over a token-ring or SDLC communication link, the NCP Server will treat your 3745 as locally attached.

The 3172 Model 390 combines the features and proven reliability of the 3172 and an integrated S/390 Microprocessor Complex (P390) to produce a system that executes the NCP Multinetwork Server software. The 3172 Model 390 connects to the 3745 using an Auto LANStreamer or Wide Area Connector Adapter.

With the NCP Server, you will experience the following benefits: improved APPN capabilities in traditional 3745 networks; short-term backup of a mainframe network owner during S/390 maintenance or unscheduled outages; distribution of network management functions for the 3745; and dynamic IP Routing capability for MVS users.

If you have communications attachments on your 3745, the NCP Server can help you enable members of today's Subarea networks to participate in APPN in a more granular way. During this period of transition, the ability to simultaneously support Subarea and APPN technologies is maintained. This offering, coupled with the 3746 Model 900 APPN Network Node and the 3746

Nways Multinetwork Controller, gives you flexible and complementary solutions for the evolution to APPN.

In addition to the APPN network node functions, the NCP Server lets you perform subarea functions related to 3745/NCP, such as CMC backup, distributed control point, and network management.

3 Highlights

- Provides connectivity to IBM S/370, S/390, and ES/9000* hosts as a LAN/WAN-to-host gateway.
- Supports SNA or TCP/IP data flows through parallel or IBM Enterprise Systems Connection* (ESCON*) channels to the following LAN types:
  - IBM Token-Ring
  - Ethernet
  - Fiber Data Distributed Interface (FDDI)
  - ATM
- Provides extensions of LAN connectivity to the WAN through multiprotocol Frame-Relay.
- Provides SDLC, Frame-Relay, and LAN connectivity for SNA devices.
- Provides all the functions of a dedicated client/server.
- Offers preloaded software packages available from the factory.

Model Highlights 3172-390

The 3172 Model 390 NCP Multinetwork Server Solution provides the following:

- A Pentium** 90 MHz Processor and an IBM S/390(TM) Microprocessor Complex for the capability to execute the NCP Multinetwork Server software in a S/390 and OS/2(R) Warp environment.
- A more flexible and concise VTAM/NCP APPN composite network node
- Subarea support processor, backup communication management configuration (CMC), backup network host capability or dynamic IP routing
- Preloaded software to simplify installation
- Token-Ring or SDLC attachment to the 3745.

4 Models

4.1 Model Summary Matrix

Models	Microprocessors	Memory	LAN or WAN Attachments min - max	Channel Attachments min - max
001	386	8 MB	1 – 4	1 – 2

Models	Microprocessors	Memory	LAN or WAN Attachments min - max	Channel Attachments min - max
002	486 25 MHz	8 MB	1 – 4	1 – 2
003*	486 25 OR 50 MHz OR Pentium 66 MHz OR Pentium 90 MHz	8 MB-64 MB	1 – 4	1 – 2
390	Pentium 90 MHz S/390 Micro. Complex	32 MB 32 MB, 64 MB, 128 MB	1 – 2	—

Note: Configurations will vary depending on software installed.
(*) : Refer to feature tables, Limitations sections, and feature descriptions for more details.

4.2 Model Conversions

None.

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