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Technical Data
Apollo/X.25

Product Number
LA67A
Description

Apollo/X.25 enables Apollo workstations to communicate over packet–switched wide area networks (WAN). Since X.25 is an international standard, the Apollo/X.25 protocol allows Apollo systems to communicate with a wide variety of products from other vendors, including mainframes, minis,

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workstations, and PCs. Apollo/X.25 users are able to conduct long distance communications for file transfer, electronic mail, remote log in, and remote program execution.

Apollo/X.25 is based on the 1980 recommendations of the CCITT (Consultative Committee for International Telephony and Telegraphy). Apollo/X.25 is yet another example of Apollo's commitment to openness and standards.

The Apollo/X.25 applications will run on a 68K workstation or server using a COM–SCAT card. Any Apollo workstation, including the DN10000, attached to a LAN running Domain Distributed Services (DDS) is able to use the server/workstation's X.25 capabilities.

Features

┤   Provides shared X.25 gateway services to a community of Apollo workstations attached to Apollo Token Ring, Ethernet, or IBM Token Ring LANs.
┤   Conforms to CCITT 1980 recommendations.
┤   Supports X.28, X.29, and X.3 PAD functionality.
┤   Operates at up to 64 Kbytes per second.

- Supports glass TTY and VT100 virtual terminal emulation.

-| Simultaneously provides more than 128 virtual circuits (X.25 sessions).

-| Provides a call library that allows users to write Pascal, C, and Fortran 77 applications that use X.25 virtual circuits.

-| Allows Apollo–to–Apollo file transfer.

-| Public carrier subscription parameters are set at the time of X.25 software initialization.

-| Supports standard and non–standard window sizes and packet sizes.

-| Supports bidirectional or one–way logical channels.

-| Allows use of CRP (Create Remote Process) in the inbound log–in server.

Hardware Options

Apollo/X.25 uses the Serial Controller–AT communications controller, which can be used in any 68000–based Apollo workstation with an AT–compatible bus. The Serial Controller–AT provides two communications lines with speeds up to 64 Kbits. Each port can be configured for one of three supported physical interfaces: RS232, RS422/449, and V.35. Interfaces and line speeds can be mixed between the ports without restriction. Refer to the Serial Controller–AT product brief for more information. The Serial Controller–AT can be installed in either a dedicated server or a stand–alone workstation.

Virtual Terminal and File Transfer Capabilities

Apollo/X.25 conforms with the X.28, X.29, and X.3 PAD standards to provide line–oriented communications. These features allow users to write programs that may call upon the services of minis and mainframes from several different vendors.

An interactive terminal emulation built upon the X.28, X.29 and X.3 standards provides Apollo users with glass TTY or VT100 terminal services. These services allow the user to log into systems that support X.25 for the purpose of running programs, querying databases, or exchanging mail messages.

Also included in the standard Apollo/X.25 product is the Apollo File Transfer Service (FTS). This feature gives Apollo users the ability to transfer files reliably from one Apollo system to another via the X.25 PSN. In the event of a temporary failure of the communications line, the FTS application automatically detects the problem, suspends operations, and then ensures that the file is transmitted in its entirety once the line is restored.

Ordering Information

LA67A License, Media, and Documentation for 68K SR10
BAC 9 track magnetic tape
BAD cartridge tape

Documentation

D–**13586**–**C** Planning for Apollo/X.25
D–**13588**–**C** Managing Apollo/X.25
D–**13587**–**C** Using Apollo/X.25