

8071 Communications Server

The Xerox 1100 Series provides shared resource communication services in the form of the Xerox 8000 Network Systems Communications Server.

The Xerox 8000 Network Systems (NS) Communication Server incorporates hardware/software technology and service applications to help users achieve more productive, cost-efficient programming management.

Specifically, the Communication Server provides network users with a growing variety of shared resource communication services by utilizing telephone line connections. Internetwork Routing Service allows the interconnection of separate Ethernet networks so that each has access to the resources of the other, and the Clearinghouse Service enables network users to assign meaningful names to servers and other network resources.

Together, these services provide the ability to expand Ethernet networks and enhance workstation capabilities. Moreover, these services are largely independent. Only those which are useful to your applications need to be activated at your particular installation.

The basis of the Communication Server is the versatile, high speed Xerox 8000 NS Processor. Server configuration includes a floppy disc drive for system software installation and a single RS232C communication port. The port provides an interface for connecting the Communication Server with other Communication Servers and host computers. Data transmission mode can be asynchronous, a bit synchronous or byte synchronous with data rates up to 9600 bps. An Administrator Keyboard/Display Terminal and fixed disc storage of 10 Mbytes complete the Server configuration.

Because of the system's modular, shared resource design, Communication Server functions can be performed by software modules running on the File Server, in which case no dedicated 8000 NS Processor is required. Those same functions, however, can be assigned to a dedicated 8000 NS Processor should user volume and applications so dictate.

The Communication Server integrates remote networks and workstations into a single evolutionary environment, and also provides for the expansion of that environment by means of additional network connections.



Features

Shared Resource Applications Port Extensions

By adding an 873 Communication Interface Unit to the Ethernet Network, the user can have four additional communication ports. An extension kit will provide four more ports so that the user can have a total of eight additional ports for communication plus the local port.

Internetwork Routing Service

Separate Ethernet networks can be interconnected by means of the Internetwork Routing Service for the purpose of sharing resources and information. For example, a company with regional laboratories, each having a local Ethernet network, could interconnect any or all of the networks through Internetwork Routing Services provided by Communication Servers on each network and, thus, facilitate the exchange of vital information among laboratories.

The Internetwork Routing Services use unswitched, leased or manually dialed telephone lines, support full duplex, and operate at speeds up to 9600 bps. Internetwork Routing Communication is supported by a Communication Port or 873 Communication Interface Unit Port.

Clearinghouse Service

The Clearinghouse Service is a resource directory for an Ethernet Network. It keeps track of all hardware on the network, all the services which execute on the hardware, and all the people authorized to use the hardware and the services. It enables network users to identify and locate services that are on the network by name. It also validates that users are authorized to use the network at Logon.

Systems Administrator

The Systems Administrator is responsible for authorizing new users as well as system diagnostics and recovery control. Services controlled by the Systems Administrator include Internetwork Routing Service and Clearinghouse Service.

Server Expandability

Communication services can be expanded by connecting multiple Servers to the Ethernet Network as dictated by user volume and needs.

Specifications Model 8071

- Xerox 80000 NS Processor up to 384 Kbyte memory and built-in Ethernet Interface.
- Floppy Disc Drive
- Built-in Rigid Disc Storage—10 Mbytes
- RS232C Communication Port
- Administrator Keyboard/Display Terminal

Specifications 8000 Processor Keyboard/Display

Dimensions

Height	25 in	14 in
Width	12 in	16 in
Length	30 in	21 in
Weight	120 lb	32 lb

Electrical Requirements

Voltage	115 VAC	115 VAC
Frequency	60 Hz	60 Hz
Current		
Start-up Surge	0.7 Amps	12 Amps
Steady State	8 Amps	
Receptacle	15 Amps, Two Pole, Three Wire Grounded, Duplex	15 Amps, Two Pole, Three Wire Grounded Duplex

Operating Environment

Temperature	50-90°F.	50-90°F.
Relative Humidity	15-85%	15-85%
Heat dissipation	2048 BTU/hr	67 BTU/hr

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