PCLAN/Server 3100

Providing PC Integration Designed to Grow with Your Business

PCLAN/Server 3100 — Power and Performance for Maximum PC Productivity
Your business success can depend on how well your PCs communicate with each other. Communication among PCs means much more than simply connecting them together. It means integrating your PCs into one network that will help you get the most out of your PCs. True integration allows each PC user to share data, applications, and resources with other PC users for increased productivity.

The PCLAN/Server 3100 is the ideal packaged LAN Server for integrating up to 32 active PCs into a local area and a wide area network. The number of supported PCs can be greater than 32, where the applications mix and the degree of simultaneous use of network services varies. The PCLAN/Server 3100 package contains all the necessary hardware and software that you need to ensure maximum performance. Its features and functions have been specially designed to meet the specific needs of PC users working in small or large PC networks. The PCLAN/Server 3100 gives you all the resources and data sharing necessary to maximize your productivity. Plus, the PCLAN/Server 3100 provides a growth path to meet your business needs for the future.

Highlights

- Based on Digital's 32-bit CMOS technology and Ethernet networking
- Large-system security capabilities for PC data
- PC Local Area Network installation, configuration, and management software is menu-driven for ease-of-use; requires MS-DOS® experience with no special training
- Integrate multiple PCLAN/Server 3100 systems for virtually unlimited PC LAN and WAN communications and networking
- Disk and File Services allow PC users to access and share server-based applications and data transparently
- Powerful, easy-to-use PCMAIL utility supports electronic mail communications
- 104 Mbytes to 1.3 Gbytes of disk storage; 8 to 32 Mbytes of system memory

Growth for Today and Tomorrow

Using a new CMOS central processing unit, the PCLAN/Server 3100 delivers 2.4 times the CPU performance of previous PCLAN/Server systems. The PCLAN/Server 3100 incorporates Digital's DECnet networking and award-winning PC integration software, all of which focus on your PC needs.

One PCLAN/Server 3100 can provide shared resources, such as printers and storage devices, to a group of PCs. This greatly reduces the cost-per-seat of each PC in your PC network. But your network doesn't have to stop there. You can connect two or more PCLAN/Server 3100 systems by adding additional Ethernet components to expand your overall local area network. Each PCLAN/Server 3100 and its PCs become one part of a local PC network that can communicate and share resources with other users across a larger local area or wide area network.

Most importantly, the PCLAN/Server 3100 provides not only cost-reduced resource-sharing, but investment protection for the future. The PCLAN/Server 3100 provides incremental growth for the future without any disruption to your existing network environment.

Digital's PCSA Network Operating System Provides Shared Resources

The PCLAN/Server 3100 package features Digital's Personal Computing Systems Architecture (PCSA) Network Operating System, the award-winning integrated personal computing software based on DECnet, Digital's leadership networking software.

PCSA gives PC users the ability to access and share server-based application and data files transparently, as though the files reside on local PCs. It also provides PC users with complete access to MS-DOS and VMS data and applications files, other VAX/VMS and UNIX® systems on the same network, gateways to IBM® mainframes and other vendors' systems and networks, printers and print servers, remote disks, and a variety of system and network resources.

Networking — From the Office to the World

The PCLAN/Server 3100 is available in a variety of configurations designed to meet your networking needs, whether they are for a local area or wide area network.

In a local area network the PCLAN/Server 3100 is the ideal PC integration server to manage your PC network and coordinate local resources. With support for both ThinWire and thick wire Ethernet built in, the PCLAN/Server 3100 can easily be added to your network to manage administrative tasks such as network and application management, file backups, and print services for client PCs. The PCLAN/Server 3100 also enables you to integrate your wide area network with configurations that support DECnet/OSI, SNA Gateway, and X.25 network environments.

To operate in a networked environment, a PC connected to the PCLAN/Server 3100 must be equipped with a DEPCA — Digital's high-performance Ethernet controller board — or any of several supported third-party Ethernet boards. Once the network link is established, PC users can access any files required for personal computing — including operating system, applications, and data files — from "virtual" drives on the PCLAN/Server 3100, or from other server systems located anywhere on a Digital DECnet/OSI network.

Data Sharing Made Simple — From PC LAN to Larger Networks

Although PC users may never know it, the MS-DOS files they use every day reside on the PCLAN/Server 3100. Many multiple-access DOS programs, such as popular database packages, can take advantage of the shared-file resources that the PCLAN/Server 3100 provides.

While these operational details remain invisible to PC users, they help provide an effective growth path from the PCLAN/Server 3100 to larger, more powerful systems. With the PCLAN/Server 3100, data and resource sharing between the personal-computer and large-system worlds has never been simpler.

High-Performance PCLAN/Server 3100 Disk Services

The PCLAN/Server 3100 system's local disk services give PC users access to high-performance, DOS-formatted, virtual disks located on the server's hard disk. This brings the best of both worlds to PC users — complete applications and data sharing among PCs in a local area network, along with performance that rivals standalone systems.

The PCLAN/Server 3100 system's low-overhead, high-performance communications protocols use multithreaded operation to make access to virtual disks as fast or faster than a local hard disk.

The PCLAN/Server 3100: Easy to Install, Configure, and Manage

The PCLAN/Server 3100 has been designed from the ground up to be truly simple to install, configure, operate, and manage.

Any user who is reasonably experienced with PC-DOS/MS-DOS personal computing can bring a PCLAN/Server 3100–based network on line — and connect multiple PCLAN/Server 3100 systems. No previous experience or special training with networking is required.

The PCLAN/Server 3100 documentation has been prepared with PC users in mind. The installation manual is clear and concise. There's even an Online User Information system that provides comprehensive "electronic" documentation, help, and tutorials in an easy-to-use, windowed format.

The Electronic Mail System You've Been Waiting For

PCMAIL is a powerful electronic mail utility that enables PC LAN users to send and receive mail messages, read mail messages, and organize messages into folders. It features a user-friendly interface that's easy to learn and operate, but does not sacrifice power.

With PCMAIL, messages can be sent from PC to PC within the LAN, and outside the LAN to larger electronic mail installations. PCMAIL may quickly become the most sought-after feature of your PCLAN/Server 3100.

Print Services Boost Productivity, Cut Costs

The print services offered to personal computer users by the PCLAN/Server 3100 enable the printing of PC output on printers attached to the PCLAN/Server 3100, or to a terminal server, VAX/VMS server, VAX system, or VAXcluster located anywhere in a Digital local area or wide area network.

PCLAN/Server 3100 users can choose from Digital's family of compatible, reliable printers. A variety of print speeds, technologies, and prices enable you to choose the right printer for the right job. The PCLAN/Server 3100 also provides serial support for the IBM Proprinter,™ Graphics Printer,™ and compatibles.

A Range of Network Management and Control Services

The PCLAN/Server 3100 software provides a complete range of services to enable management and control of the PC local area network.

Delivered through easy-to-use, menu-driven software, these services provide control over the number of simultaneous client connections, which allows for management of system resources, tracking the use of applications, and ensuring compliance with software licensing agreements. The PCLAN/Server 3100 software also enables the system administrator to register clients, configure and list resources, and specify PC clients for remote booting.

Versatile Configurations Mean the Right System for You

The PCLAN/Server 3100 is available in a compact desktop package. To simplify ordering, the PCLAN/Server 3100 is available in a variety of pre-packaged configurations, all designed to suit your needs of today and allow for future expansion.

The PCLAN/Server 3100 is designed to support different network environments. There are systems configured for local area networks, DECnet and/or X.25 wide area networks, or SNA Gateway wide area networks. And each system, no matter what network preference you choose, is available with 8 Mbytes of memory standard, either one 104-Mbyte hard disk or three 104-Mbyte disks (for a total of 312 Mbytes of mass storage), a 95-Mbyte streaming tape, and all the necessary software and licenses. If more mass storage is required, you may add up to three 332-Mbyte external hard disks via the Small Computer System Interface (SCSI) port.

Adherence to Standards Means Investment Protection

The PCLAN/Server 3100 software includes support for emerging and established industry standards, including the Ethernet 802.3 and OSI networking standards, MS-Net® networking, the NETBIOS communications interface, and the MS-DOS operating system versions.

With the PCLAN/Server 3100, you needn't bet your organization's dollars — and, to some extent, its future — on proprietary network schemes and communications protocols that may one day become obsolete.

World-Class Service

Digital offers a variety of service plans for the PCLAN/Server 3100 hardware and software. Digital's service offerings vary by country. For more information on these service offerings, please contact your local authorized distributor or Digital Sales Office.

PCLAN/Server 3100 Specifications

Power Requirements

Line voltage	120 V/240 V
Voltage tolerance-RMS	88–132/176–264
Frequency-single phase	60 Hz/50 Hz
Frequency tolerance	47–63 Hz
Max. running current	4.5 A/2.3 A
Max. power consumption	300 W

Operating Environment

Temperature	10°–32° C (50°–90° F)
Relative humidity	10%–80% noncondensing
Max. operating altitude	2.4 km (8000 ft)

Physical Characteristics

Height:	14.99 cm (5.9 in);	Width:	46.38 cm (18.26 in)
Depth:	40 cm (15.75 in);	Weight:	20.5 kg (45 lb)

System Configurations

Memory	8 Mbytes expandable to 32 Mbytes
Mass storage	104 Mbytes to 1.3 Gbytes
Load/backup device	95-Mbyte streaming tape

PCLAN/Server 3100 Software

- Operating System, Server License
- DECnet Network Software, End-Node License (includes license for PCSA Network Operating System)
- PCSA Network Operating System Software
- DECnet/PCSA Client Software
- Menu-driven Administrator Utility
- Broadcast Utility
- Client Software Media and Documentation includes:
  - DECnet-DOS Network Software
  - Microsoft® MS-Net
  - NETBIOS Programming Interface Support
  - VT220/VT320 Terminal Emulators
  - PCMAIL
  - SEDT Full-Screen Editor
  - Microsoft MS-Windows® Interface
  - PC DECwindows Display Facility
  - DOS Utilities for all PCs, such as backup and restore facilities for networked PCs, loadable text and graphics fonts, and print screen capabilities
  - PCLAN/Server 3100 System Administrator Documentation Kit (includes Network Management and Administrator's Guide)
  - PCLAN/Server 3100 User Documentation Kit (includes PCMAIL and SEDT Manuals)