

NCD NC200 Series Business Network Computers

Industry leading network computing solutions

The NC200 Series offers the broadest support for today's web, UNIX, Windows and legacy application access requirements, with expandability to meet tomorrow's needs

Highlights

- Unparalleled support for distributed processing
- Industry standard Netscape NC Navigator browser
- Java™ 1.1 virtual machine
- Broad application support
- Legacy system access
- Best in class multimedia support

Proven Thin Client Technology for Today's Business

In the rapidly evolving world of information technology and business computing, one thing has not changed. The desktop client is still the single most critical interface between your business systems and your people. NCD continues to bring their leadership and expertise to the market in support of this critical interface. The NC200 Series Business Network Computers are designed to meet the ever-increasing needs of business at the desktop, providing complete and low cost access to your enterprise business systems.

As networked business systems evolve and grow, the desktop support of enabling technology becomes critical. The NC200 brings all the power of your business enterprise to every desktop through web browsers and Java technology, distributed processing support, broad application and legacy access, and best in class multimedia support.

Unparalleled Support for Distributed Processing

The NC200 brings the power of a local processor to each desktop. Selected applications that provide access to network servers run locally on the NC200. This allows off-loading of server processes and the network, freeing them up for complex business related applications rather than simple access processing. Because the NC200 has local processing capabilities, user and task specific processing can be distributed locally where it is more efficient.

Industry Standard Netscape NC Navigator

The NC200 includes the industry leading Netscape NC Navigator browser as a standard component. Users will appreciate the overall improvement in response time made possible by running the browser locally. With Netscape NC Navigator, users may access informative web sites, check email, access Usenet news, or execute local Java applets. Custom business applications are accessed through the standard web protocols provided within the browser.

Java 1.1 Virtual Machine

platform or location.

A Java 1.1 virtual machine is included in the local Netscape NC Navigator on the NC200. This enables business applications to make use of distributed processing by downloading Java applets to run locally on the NC200. The inclusion of a Java virtual machine on the client gives each desktop the power to download Java applets for local processing from

anywhere on the network, regardless of originating

Broad Application Support

The NC200 provides simultaneous windowed access to a local Netscape NC Navigator web browser, PC applications, Java, and server-based applications running on most major systems. Business systems such as web servers, application servers, file servers, mail servers, or database servers can be accessed easily and simultaneously. The NC200 also comes standard with an ICA client for accessing PC applications running on a multi-user Windows NT server.

Legacy System Access

The NC200 supports access to additional legacy systems through a series of terminal emulation packages that execute locally. Legacy applications running on major systems such as IBM mainframes and DEC mini-computers can be accessed simultaneously with other applications. Users may access legacy applications using local IBM 3270E and 5250 emulators, DEC VT220, and DEC VT340 emulators and X Window System clients.

Best in Class Multimedia Support

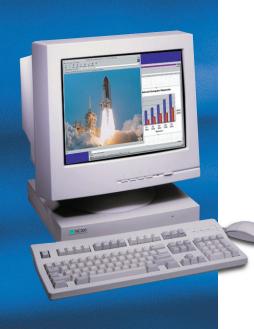
The NC Series are the only network computers that can display true 30 frames per second network digital video to a window along side other application windows for a combined presentation. The hardware assisted digital video will not degrade when using other local clients and brings increased user productivity to every desktop. This functionality makes it possible for users to be trained or updated via networked digital video at their desktops without interrupting other tasks.

World-class Technical Support

NCD and NCD Technology Certified Resellers provide a decade of experience in thin client computing. Backed by formal service level agreements with Microsoft and Citrix, you can choose from a wide range of services that cover the entire thin client environment.

NCD — The Thin Client Experts

The NC200 Series is predicated on NCD's decade of experience in meeting customer needs with industry-leading hardware and software technology. A good deal of our success is the result of close working relationships with companies like Citrix®, Liberate Technology® and Pericom®.





NC200 Series Business Network Computers

Standard Features

	N200X	N200XPC	N200XPC2	N200XPL	N200FAST	N200WEB	N200TR
System Memory Installed	8MB	16MB	16MB	16MB	20MB	56MB	16MB
System Memory Slots	2	2	2	2	2	2	2
System Memory Slots Unused	2	1	1	1	0	0	1
Network Interface	10Base-T	10Base-T	10Base-T and 10Base2	10Base-T	10Base-T 100Base-T	10Base-T	Token-Ring
Maximum Resolution	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024
Local Motif WM Version		2.0	2.0	2.0	1.1	2.0	2.0
Flash Memory Installed		8MB	8MB				
Local 3270E & 5250							YES
Parallel Port				YES			YES

Other Features

 Logic Unit includes 3 button mouse, two 9pin RS-232 serial ports and power module

Warranty

· Three year return-to-depot

Main Processor

- NEC R4300 @ 100 MHz
- Field Upgrade: Digital video processor: C-Cube CL-480 (NCFDV)

Performance

X11: 4.78 Xmarks; MPEG digital video: 30 fps at full screen

Maximum Resolution

• 1280 x 1024

Maximum System Memory

• 72MB

LAN Ports

 Field Upgrades: 10Base-5, 10Base-2, auto-sensing 10/100Base-TX

Parallel Port

Field Upgrade: One 25-pin DSUB IBM-style
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Digital Video Card

 Field Upgrade: Delivers true 30 frames per second MPEG-1 streaming digital video

Audio Card

 Field Upgrade: 8/16-bit, monaural or stereo input and output, 48 kHz sampling rate (mono or stereo), 64X oversampling 3.5 mm stereo line in and out, 3.5 mm microphone in, 3.5 mm stereo speaker/ headset support, ICA audio

Performance Extender

 Field Upgrade: Increases graphics performance and raises maximum operating temperature environment from 99°F to 104°F

Flash Memory

• Field Upgrades: 8MB or 16MB

Standards Compliance

 UL 1950*, CAN/CSA C22.2 No. 950*, IEC 950*, FCC Class A, EN55022 (class A), EN50082-1, EN60950, C-Tick, VCCI, CE, Energy Star Compliant
* certified by CSA

Cooling

Convection (no fan required)

Keyboards Supported

Windows 95, IBM 3270, SUN type V

Monitor Connector

. Mini D-sub 15-pin, VGA

Server Software

Requires NCD NCBridge 3.2

NCD NCBridge Software Features

Web Support

 Local Netscape NC Navigator Browser; Java Interpreter. Supports HTML, MIME, GIF, JPEG, SMTP, NNTP, FTP, POP3 and IMAP4 (56MB System Memory recommended)

Boot Options

 X Server Code downloads from host or optionally from flash memory

Boot Protocols

• TFTP, NFS, DHCP, BOOTP, RARP, Field Upgrade: MOP/DAP

Network Protocols

 Standard: TCP/IP, TFTP, NFS, BOOTP, RARP; PPP. Field Upgrades: Serial Xpress, DECnet and LAT

Protocol Supports

Supports ICA protocol

Network Management

 Standard: Web-based management via local HTTP server, DNS, SNMP MIB II, PING, Boot Monitor; Field Upgrades: DECnet Mirror and DECnet Trigger

Parameter Setup

• Setup menu system and remote configuration files

Printer Support

 Network printer support, local print screen, local BSD print spooler

X Server

• X Server based on X11 Release 6.1

Server Extensions

 Shape, Input Extensions, Multi-Buffer, XIE 5 V5.0 with DIS Imaging Extension, Font Caching, Xidle and Xtest RARP Extensions, XBlink

Local Clients

 Standard: TELNET, Console, Protocol Independent Chooser, Setup, Local Client Launcher, VT220 Emulator, Local Xlock, Local Floppy Manager, low memory indicator, XClock, GUI for updating other NC flash memory, Web-based Administrator includes local HTTP server

 Field Upgrades: True OSF/Motif V2.0 Window Manager, DECnet (Cterm, LAT), Serial Xpress, True OPENLOOK Window Manager, Tek340 Emulator, IBM 5250, 3270 Emulator (Models 2, 3, 4, 5), 3287 Emulator, IBM Graphics 3179G Emulator (Models 2, 3, 4, 5), XIE

Multimedia Local Clients

 Field Upgades: Local Audio Player, Local Audio Mixer, Local XIE Viewer, Local Video Player

Multi-User PC Application Access

 ICA local client for accessing Microsoft Windows NT Server 4.0, Terminal Server Edition, Citrix MetaFrame and WinFrame 1.6, 1.7 or 1.8

Host-Based Clients

• Sun Audio Redirect Driver

Fonts

• 27 Resident, 700+ available on server tape

Font Service

• TFTP, NFS, Flash, Serial Xpress, DAP

Supported Hosts

 SUN, HP, DEC (Ultrix, VMS, Alpha Open VMS), IBM RS/6000, SGI, and other UNIX Platforms, Windows NT

Input Options Supported

• Touchscreen

Remote Access

PPP; Field Upgrade: Serial Xpress

NCBridge Media Formats

• CD-ROM, TK-50

NCD ThinPATH Plus Support

 Supports redirection of COM port data from Windows NT Terminal Server Edition applications to the NC Serial ports

Technical Specifications for the Logic Base

Dimensions

• Height: 2.5" (64mm)

• Width: 11.0" (279.4mm)

• Depth: 12.5" (317mm)

Electrical

- Input current @ 110V is 0.75 Amps
- Input current @ 220V is 0.4 Amps
- Power Consumption is 30 Watts

Heat

• Heat dissipation is 104 BTUs / hour

Software Field Upgrades

NCFBL - Local Blink Client

NCFEX - Local XIE

NCFN4 - Local Netscape NC Navigator 4.0

NCFNN - Local Navio NC Navigator 3.0

NCFRS - Serial Xpress

NCFSN - Local OpenLOOK Window Manager

NCF3L — Local Motif 1.1 Window Manager

NCF3N — DECnet and Local MWM 1.1

NCF3P - Local 3270 Terminal Emulator

NCF30 - Local 3179G Terminal Emulator

NCF3R - Local 3270E/5250 Terminal Emulator

NCF3V - Local VT340 Terminal Emulator

NCF4L - Local Motif 2.0 Window Manager

NCF4N - DECEnet & MWM 2.0

Hardware Field Upgrades

NCF04 - 4MB DIMM

 $\pmb{\mathsf{NCF08}} \; - \mathsf{8MB} \; \mathsf{DIMM}$

NCF16 - 16MB DIMM

NCF32 - 32MB DIMM

NCF1D - 8MB Flash Memory Card

NCF1E - 16MB Flash Memory Card

NCF3A2 - Thicknet Ethernet Interface (10Base5)

NCF3B2 - Thicknet Ethernet Interface (10Base2)

NCF3C2 - 10/100Base-T Ethernet Interface

NCFAU - Audio Card

NCFDV - Digital Video Card

NCFPL - Parallel Card

NCFDS — Display Stand

(required for 19"or 21" monitors)

NCFPE — Performance Extender

XPFD01 - Floppy Dlsk (requires parallel card)

Available Monitors

NCF15M — Panasonic 15", 1024x768 color

NCF17M - Panasonic 17", 1152x900 color

NCF17MH - Panasonic 17", 1280x1024 color

NCF21M – Panasonic 21", 1280x1024 color * **STD15** – 15". 1024x768 color

STD17 – 17", 1024x768 color

STD19 - 19", 1280x1024 color*

STD21 – 21", 1280x1024 color * * requires Hardware Field Upgrade NCFDS

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