

# NCD ThinSTAR™ 500 Windows-based terminal

High performance, easy-to-manage access to Windows 2000, Windows XP and Windows NT servers as well as Citrix MetaFrame and legacy systems

NCD ThinSTAR 500 is a state-of-the-art hardware platform capable of supporting a range of local operating systems, local programs and display protocols for the ultimate in managed flexible access to enterprise applications.

## Highlights

- Modular operating system allows simple loading of updates
- High performance National Semiconductor Geode technology
- High speed Ethernet connectivity (10/100 BaseT)
- Centrally manageable with instant-on and wake-on-LAN capability
- Secure option slot standard (PCI) allows free choice of additional peripheral cards
- Largest System and Flash memory in its class for multiple sessions and web pages
- Fan-less design with industry's highest available reliability
- NCD ThinPATH software extensions for complete management, desktop functional support and legacy connectivity

## Superior Access to Microsoft Terminal Services and Citrix MetaFrame

The NCD ThinSTAR 500 is the latest in the award-winning line of Windows-based terminals from NCD, the solutions leader in thin clients for 12 years. The NCD ThinSTAR 500 delivers the most comprehensive thin client functionality available on the market today. With the NCD ThinSTAR 500, corporations can enjoy the richness of the PC experience without the associated costs of management and the endless replacement cycles of the PC model. When combined with NCD's ThinPATH software, the NCD ThinSTAR 500 provides high performance graphics over RDP and ICA protocols, including audio input and output, and a wide range of local peripheral connectivity options.

The NCD ThinSTAR 500 also includes a powerful range of emulators, giving direct access to mission critical applications on legacy systems without using an NT server and Terminal Services as middleware.

## Higher Levels of Performance and Flexibility

The NCD ThinSTAR 500 is the result of a close collaboration between NCD, National Semiconductor and SCI Systems. The result is a state-of-the-art hardware design, manufactured to the highest standards of quality and reliability for the ultimate confidence in a desktop device.

Coupling the latest National Semiconductor Geode technology with NCD's 12 years of thin client design, the NCD ThinSTAR 500 offers unparalleled flexibility to the user. Its standard 32 MB of system RAM is expandable to 288 MB, allowing the support of multiple simultaneous connections and web pages. The 16 MBytes of flash memory is expandable to support 32-bit operating systems such as Microsoft NT Embedded and Linux. The NCD ThinSTAR 500 ships with Microsoft Internet Explorer browser as standard with support for 16-bit (64,000) colors for a rich browsing experience. The NCD ThinSTAR 500 also includes a standard, secure PCI card slot for future expansion requirements.

The NCD ThinSTAR 500 can meet unique industry application requirements with its multiple standard peripheral connectors. It features two serial ports, one parallel port, two Universal Serial Bus (USB) ports, and one 16-bit audio output port. Using NCD ThinPATH software, audio input is also available allowing the use

of speech recognition software and voice over IP technology. With NCD ThinPATH, Windows applications can also use local peripherals such as floppy disk drivers, serial devices and print redirection techniques allowing the widest possible flexibility in thin client deployments. Where remote connectivity is required, internal and external modems are supported.

## NCD ThinPATH Software Adds Value

NCD ThinPATH is a suite of software that enhances the functionality and flexibility of Microsoft and Citrix server-based computing. Available for both NCD ThinSTARs and PCs that are being used as thin clients, NCD ThinPATH software adds the most management control and peripheral support that is possible with a thin client, extending the possible places where NCD products can replace traditional PC-based client server installations. By extending the reach of its thin client solutions, NCD allows end users to enjoy the lowest total cost of ownership of any thin client vendor.

## Advanced Manageability for Fast, Easy Deployment and Maintenance

NCD ThinPATH Manager software delivers true "hands-free" management and administration. Each terminal's personality can be configured remotely, via a web browser. Wake-on-LAN technology allows for off-hours updates, diagnosis and maintenance. With the Centralized Configuration Tool, system administrators can configure terminals individually or in workgroups for fast and easy set-up. With its SNMP support, industry-standard enterprise management suites can administer and maintain the NCD ThinSTAR 500.

## World-Class Technical Support

NCD and NCD Diamond Partners provide a decade of experience in thin client computing. As a company, NCD is committed to maintaining an expert support staff that is trained and certified on all current product technologies including Microsoft Windows Terminal Services and Citrix ICA.

## NCD – The Thin Client Experts

NCD ThinSTAR 500 takes advantage of NCD's experience in simplifying access to network-based information and applications. Our award-winning hardware and software combined with NCD's relationship with Microsoft and Citrix, together provide the most reliable, manageable and flexible thin client solutions.

NCD ThinSTAR™



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## Technical Specifications

### Hardware

CPU:	300 MHz (266MHz shipping Q3 2002)
RAM Memory:	32MB SDRAM standard, expandable to 288MB
Flash Memory:	16MB
Graphics Subsystem:	Integrated
Video Memory:	4MB UMA
Audio:	16-bit stereo output 8-bit input

### Software

Operating System:	Microsoft Windows CE 2.12
Transport Protocols:	TCP/IP, PPP, RAS
Display Protocols:	Microsoft RDP 5.0, Citrix ICA 6.0, HTTP
Key Features:	<ul style="list-style-type: none"> <li>• Setup Wizard for easy configuration</li> <li>• Microsoft Internet Explorer</li> <li>• Built-in PPP dialer support for RDP and ICA</li> <li>• SNMP Agent</li> <li>• Terminal Properties Security</li> <li>• Mouse Speed Control</li> <li>• Software Volume Control</li> <li>• Ping Utility</li> </ul>

### Centralized Software Update

NCD ThinSTAR Operating Software (one per site required)

### Display

Resolution Support: Up to 1280x1024 @ 16-bit color

Refresh Rate: Up to 85Hz, DDC2 monitor support

### Peripheral Ports

Serial port:	2 DB-9 RS232C ports, up to 115.2K baud
Parallel port:	1 DB-25 bi-directional Centronics-compatible Enhanced Parallel Port (EPP) IEEE 1284 compliant
Expansion slot:	3.3 V PCI card or an ISA card
Mouse:	2-Button Mouse PS/2 style
Keyboard:	PS/2 Windows-95 104 keyboards

- English (US)
- English (UK)
- English (Canadian)
- French (Standard)
- French (Belgian)
- French (Swiss)
- German (Standard)
- German (Swiss)
- Italian (Standard)
- Japanese (Kana)
- Norwegian
- Spanish (Latin American)
- Swedish (Finnish)

USB: 2 USB ports

Networking: 10/100BaseT auto-sensing Ethernet  
Modem connectivity via built-in serial port or PCI

### Physical Characteristics

Dimensions	
Width (body):	2.4" (55mm)
Width (stand):	4.5" (115mm)
Depth:	11.2" (281mm)
Height:	9.5" (240mm)
Weight:	2.95 lbs (1.3kg)
Security mounting bracket available	

### Environmental

Temperature:	5°C to 40°C
Humidity:	10% to 90% non-condensing
Altitude:	Up to 10,000 ft.
Power:	19 watts maximum input power

### NCD ThinPATH Software

NCD ThinSTAR 500 supports:

- NCD ThinPATH Manager - enables remote configuration and administration from central location.
- NCD ThinPATH Desktop Mirror - remotely mirrors an entire thin client desktop over TCP/IP network.
- NCD ThinPATH Plus - enhances Microsoft's RDP to support local printers, peripheral devices and Windows audio.
- NCD ThinPATH *TeamTalk* - supports a range of local emulators giving you access to almost any legacy system.

### Server Operating System Support

- Microsoft Windows 2000
- Microsoft Windows NT Server 4.0, Terminal Server Edition
- Microsoft Windows XP
- Citrix MetaFrame 1.0 and above
- Citrix MetaFrame XP
- Citrix WinFrame version 1.6 or above

### Regulatory Compliance

Energy Star  
FCC-B  
UL  
CSA  
CE compliant  
TUV/GS  
VCCI  
C-Tick

### Warranty

36 month system warranty return to factory

All specifications are subject to change



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