

# NCD ThinSTAR™ 232 Windows-based Terminal

Easy-to-manage network access to Windows applications with industry-leading price-to-performance ratio

**NCD ThinSTAR 232 is a Windows-based Terminal with the performance and quality you expect from NCD at a value price point ideal for task-based user deployments.**

## Highlights

- Highly manageable, leveraging Intel Wired for Management design criteria (Wake-on-LAN)
- Lowest cost-of-ownership desktop for accessing Windows applications
- 8 MB Flash, 32 MB RAM
- High-speed Ethernet connectivity (10/100BaseT)
- Supports 64k colors
- Flexible support for both Microsoft Remote Desktop Protocol (RDP) and Citrix Independent Computing Architecture (ICA)
- Optional NCD ThinPATH Software enhances management and desktop functionality
- Local audio input and output

## Superior Price-to-Performance Ratio

The NCD ThinSTAR 232 Windows-based Terminal (WBT) gives Information Technology (IT) managers the ability to deploy high performance desktop devices to task-based users while controlling IT costs and easing management headaches. The NCD ThinSTAR 232 provides managed access to mission-critical applications with a low overall cost of ownership.

NCD ThinSTAR 232 not only offers a lower acquisition cost up front, but also continues to deliver cost savings through ongoing management and maintenance of the deployment. Since all application software and hardware upgrades take place on the servers, IT departments save on administrative and upgrade costs. And when combined with NCD ThinPATH Software, the NCD ThinSTAR 232 provides centralized manageability as well as local audio input and output, and a wide range of local peripheral connectivity options. For those with Citrix ICA environments, the same robust support is provided.

## Simple Plug-and-Play Installation

NCD ThinSTAR 232 is easy to install, use and manage. Installation simply requires plugging the terminal into the network. Even the local network address can be automatically assigned. Users are up and running quickly using a technology that fits seamlessly into a company's current IT infrastructure.

## NCD ThinPATH Software Adds Value

NCD ThinPATH is a family of software that enhances the functionality and flexibility of NCD ThinSTAR Windows-based Terminals or PCs accessing Microsoft Terminal Server via the RDP and ICA protocols.

NCD ThinPATH Software combined with the NCD ThinSTAR 232 provides powerful centralized management, desktop functional enhancements and access to virtually any legacy host.

## Local Audio Input and Output

Microsoft applications requiring audible alerts or sounds, or even desktop microphones, are supported on the NCD ThinSTAR 232. Audio sounds generated from Windows applications are transparently transferred over the network to the desktop without any application changes.

## Simple, Advanced Design for Superior Reliability

NCD ThinSTAR 232 includes a high-speed CPU and advanced graphics and I/O processors. With no moving parts, reliability equals a Mean-Time-Between-Failure (MTBF) rate at over 300,000 hours-the equivalent of only one system outage every forty years. And with the elimination of local storage, enterprise business applications will not be adversely affected by individual users installing applications, configurations or viruses.

## World Class Technical Support

NCD and NCD Diamond Partners 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

NCD ThinSTAR 232 takes advantage of NCD's 12 years of experience in simplifying access to network-based information and applications. Our award-winning hardware and software combined with NCD's relationship with companies like Intel, Microsoft, and Citrix together provide the most flexible thin client solutions.

NCD ThinSTAR™



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## Technical Specifications

### Hardware

CPU: 166MHz Intel Pentium w/MMX  
 RAM Memory: 32MB SDRAM  
 Flash Memory: 8MB  
 Graphics Subsystem: Integrated  
 Video Memory: 2MB UMA  
 Audio: 16-bit stereo output and internal speaker  
 8-bit input  
 Networking: 10/100BaseT auto-sensing Ethernet  
 Modem: connectivity via built-in serial port

### Software

Operating System: Microsoft Windows CE  
 Transport Protocols: TCP/IP, PPP, RAS  
 Display Protocols: Microsoft RDP, Citrix ICA  
 Key Features:
 

- Setup Wizard for easy configuration
- Built-in PPP dialer support for RDP and ICA
- SNMP Agent
- Terminal Properties Security
- Mouse Speed Control
- Software Volume Control
- Ping Utility

### Terminal Update Utility

NCD ThinSTAR Operating Software (one per enterprise required)

### Display

Resolution Support: Up to 1600x1200 @8-bit color  
 1024x768 @16-bit color  
 Refresh Rate: Up to 85Hz, DDC2 monitor support

### Peripheral Ports

Serial port: DB-9 RS232C port, up to 115.2K baud  
 Parallel port: 1 DB-25 bi-directional Centronics-compatible Enhanced Parallel Port (EPP) IEEE 1284 compliant  
 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)

### 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)

### Environmental

Temperature: 5°C to 40°C  
 Humidity: 10% to 90% non-condensing  
 Altitude: Up to 10,000 ft.  
 Power: 29 watts maximum input power

### NCD ThinPATH Software

NCD ThinSTAR 232 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 *TeemTalk* - supports a range of local emulators giving you access to almost any legacy system.

### Server Operating System Support

- Microsoft Windows 2000 Server
- Microsoft Windows NT Server 4.0, Terminal Server Edition
- Citrix MetaFrame™ thin-client/server software
- Citrix WinFrame™ thin-client/server software 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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