

WEB Terminal

User ' s Manual

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INFORMATION TO USER:

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. *Reorient / Relocate the receiving antenna.*
2. *Increase the separation between the equipment and receiver.*
3. *Connect the equipment into an outlet on a circuit difference from that to which the receiver is connected.*
4. *Consult the dealer or an experienced radio/TV technician for help.*

Video Cable : Shielded Interface Cable must be used to ensure product compliance

1. NEXTERM SE Overview

1.1 Introduction

“ Easy Installation, Optimized Functions and The Lowest Price”

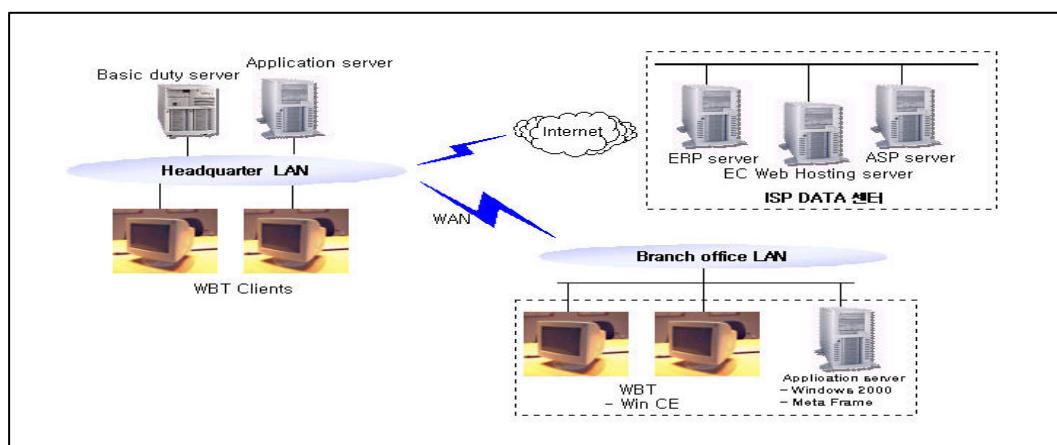
It is this web terminal's strong points that you can expect when you utilize it in your environments.

Under the basic environment of server based computing and internet connection speed of 56Kbps, you can use various applications on the high performance servers running Windows 2000 Server OS as well as internet connection.

Classification	NEXTERM SE
Operating Mode	WBT(Windows Based Terminal)
CPU	Intel StrongArm 206MHZ(235MIPS)
SDRAM	16M
Flash	8M
Operating System	Windows CE 3.0

1.2 Functions

All application programs are operated in servers. NEXTERM SE as a client transfers only the inputs of mouse or keyboard to sever and the result of application programs, which operates on the server to the client using protocol (RDP or ICA). Therefore the traffic that causes problems in the existing network will be reduced and the client specification does not require high performance.



1.3 Features

As Operating System, Windows CE is utilized

NEXTERM SE has an open architecture and uses 32-bit multitasking and multi-thread operating system that support various functions:

- Utilizes a kernel based on the architecture of Windows NT
- Supports pre-occupied multitasking and multi-thread
- Provides users with friendly GUI environment
- Booting process is not necessary since the operation system is stored on ROM

StrongARM CPU of Intel utilized

- Low power (4W) Operating available
- Size and weight reduced
- Low noise (Cooling fan unnecessary)

Quick Booting Circuit Design (Compared to personal computer)

When powering system on, system booting is performed in the last task environment

Minimized Size

There are unnecessary elements such as HDD, FDD, CD-ROM and cooling fan.

Server Environment Available

- Programs are executed in servers and the results of the execution are displayed on the client
- Multi-user can connect to the server simultaneously and execute each different program independently.

2. NEXTERM SE Use Preparations

This chapter provides the structure and setting method of NEXTERM SE .

2.1 System Structure

You must be familiar with the system structure for the proper connection of peripheral devices.

- Basic supplied parts are: Monitor, Mount (main frame), Keyboard, Mouse and Adapter.

NEXTERM SE Front

Name	Functions Description
Headphone	Input terminal of headphone
Power Button	Monitor OFF, SUSPEND MODE, RESET function

WEB Terminal

NEXTERM SE Rear



Power



LAN



MOUSE (PS/2)



KEY (PS/2)



RS-232C
(Serial
devices)



VGA (monitor)



HEADPHONE



USB

Name	Functions Description
RS-232C	This is connected to D-type connector that consists of 9 pins and interface with other serial devices for transmitting/receiving data
MOUSE	PS/2 Port, connected to MINI-DIN connector made up of 6 pins
RS-232C	This is connected to D-type connector that consists of 9 pins and interface with other serial devices for transmitting/receiving data
KEY	PS/2 Port, connected to MINI-DIN connector made up of 6 pins
LAN	Single line for digital transmission. This interface is connected to a RJ-45 Jack made up of 8 pins.
Microphone and Headphone	Input terminal of microphone and headphone
Power	This is connected to an adapter that supplies power to the system.

2.2 Connecting the Components

This section shows how to install the components.

Note: the power should be off during the system connection.

Connecting Speaker and Microphone

Connect the speaker or headphone to the audio port.

Connect the microphone to the microphone port.

Connecting other connection devices

1 Connecting Keyboard

Connect the keyboard to its port after checking whether the port is PS/2.

2 Connecting Mouse

Connect the mouse to its port after checking whether the port is PS/2.

3 Connecting LAN

Connect the RJ-45 jack to the LAN port.

4 Connecting Monitor

Connect the monitor signal cable, which is attached to the monitor with the VGA port

5 Connecting Power

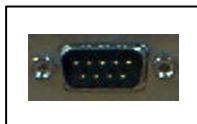
Connect the adapter to the POWER port and outlet. Be sure that you must use a supplied adapter.

2.3 Connecting external devices

NEXTERM SE has RS-232C port that can connect additional external devices.

Serial Port

Serial port can be connected to an external modem or other devices that support the serial port.



2.4 Power Button

This section explains the power button on the front panel of the mount (main frame).

If you press this button within 0.5 with system on after adapter connected, the screen will be ON/OFF. The mode will change into the Suspend mode (CPU is resting) if you press it for 0.5 ~ 3 seconds. And the system will be reset if you press it for 3 seconds or longer. You can press it again in order to return to the normal operation mode from the screen off or suspend mode.

3. Operation of NEXTERM SE

For more detailed information, ask the server administrator.

3.1 Setup of Operating Environment

This section describes how to setup the operating environment of WEB Terminal.

3.1.1 Preference setting

Press the mouse right button on the background screen, and then click Preference. Terminal Preference will appear.

Terminal preference has the following 2 tabs.

- Manufacture : This shows factory-default settings and operating system version information.
- Preference : This enable to set the name and information of this terminal, type of keyboard and screen saver function. If you select the bottom option, the terminal environment will be reset to factory-default settings.

3.1.2 System Setup

Press the mouse right button on the background screen in order to display the menu, and then click “System Setup -> OS & Memory”. System Properties window will appear.

General displays the system information and Memory displays the system memory management information.

You can divide the Storage Memory and Program Memory by moving the scroll bar using a mouse.

You should allocate more space to Program Memory if many windows are displayed or a large execution file is running. You should allocate more space to Storage Memory if there are many files to be stored while using E-mail or Web surfing.

3.1.3 Display Setup

Press the mouse right button on the background screen in order to display the menu, and then click System Setup -> Display to open MQConfig window.

If you select Display Setting tap, you can set color, resolution and recovery rate. You can watch a normal screen in case you adjust the desktop size and CRT Viewport to the same size. If you have changed the settings, don't reboot after pressing OK button on the screen. Only reboot after press "Save".

3.1.4 Keyboard Setup

Press the mouse right button on the background screen in order to display the menu, and then click System Setup -> Input to open Keyboard Properties window. You can change the speed setting of keyboard button.

3.1.5 Network Setup

For more detailed information, ask the server administrator.

Press the mouse right button on the background screen in order to display the menu, and then click System Setup -> NETWORK to open NETWORK CONFIGURATION window.

Select CS8900A ETHERNET DRIVER, and then click Properties.

Select one of the following options from the IP Address window.

- If the network uses Dynamic Host Configuration Protocol (DHCP), use IP information provided by DHCP.
- If you want to use Static IP information allocated to you, click the below IP address

Type IP Address, Subnet Mask, and Gateway.

Click Name Server tap in order to display the next screen.

Type IP of DNS Server.

Click the User information of the initial screen in order to type the ID and PASSWORD to be used on the network, and then enter the related information. In order to save the typed information after verifying them, click "Registry Save" icon.

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3.1.6 Sound Setup

Press the mouse right button on the background screen in order to display the menu, and click System Setup -> Sound in order to open Volume & Sounds Properties window.

You can control the various sound and volume.

3.2 Network Environment View

3.2.1 PING

Press the mouse right button on the background screen in order to display the menu, and click NETWORK TEST -> PING to open PING window.

You can check the connection condition when typing the opposite side IP or name on the Destination Hostname or IP section and pressing the Start.

3.2.2 Ipconfig

Press the mouse right button on the background screen in order to display the menu, and click NETWORK TEST -> Ipconfig to open Ipconfig window.

When clicking the Ipconfig button, the information of the operating network will appear.

3.3 Operation of Connection Manager

This is used to connect WEB Terminal to servers.

If users didn't set the automatic start connection, Connection Manager will be displayed automatically when starting and ending WEB Terminal.

1. Click "Add" from Configure window. New Connection window will appear.

2. Select one of the following connection protocols.

- Citrix Independent Computing Architecture Protocol (ICA)
- Microsoft Remote Desktop Client Protocol (RDP)

3. Click "OK".

As Connection is created, registration is completed on the Connection Name list.

3.3.1 Additional Creation of ICA Connection

1. Select "Citrix ICA Client" of New Connection window in order to display Specify Connection Type window.

2. Specify a connection type.
 - Network Connection – Direct connection line is required such as 10/100Base-T.
 - Dial-in Connection – uses a modem.
3. Click “Next”
4. All existing Citrix servers or applications on the servers will be inquired and recognized. Select required servers or applications. If the server list doesn't appear, search it again using “Refresh” or type the server name or IP to connect directly.
5. Click “Next”. If you select “FINISH”, following option will be saved without specification.
6. You are able to change the sever name or create an icon on the background screen.
7. Click “Next”.
8. Configuration can be made in such a way that the applications can be used from the selected server. You can leave it blank in order to specify Command Line and Working Directory or to use Windows NT desktop.
9. Click “Next”.
10. Specify Username, Password and Domain in order to logon the server automatically.
11. Click “Next”.
12. Specify 16, 256 or Thousands Window Colors on the Select Window Option window.
13. Click “Next”.
14. You can configure the ICA session.
 - Compress Data Stream – select it when connection is made with modem (modem dial-up) or WAN(wide area network).
 - Enable Sound – select it when LAN (Local area network) is the same as 10/100Base T. When using Sound through WAN and modem, increasing usage of bandwidth causes some problems.
 - If you use modem or WAN, set SOUND QUALITY to LOW and SPEEDSCREEN to ON.
15. Click “Next”.
16. Set the network environment connecting the server.
17. Click “Finish”.

Now the installation of ICA connection is finished and it is ready to connect to the server.

3.3.2 Additional Creation of RDP Connection

1. Select Microsoft Remote Desktop Client of New Connection window in order to display WTS Connection Wizard.
2. Type a name for new connection on the Name section.
3. Type the name and IP address of the server to be connected to the server section.
4. Check Low Speed Connection when connecting to the server through low bandwidth lines such as a modem or WAN.
5. Click “Next”.
6. If you want to logon to server automatically, select Automatic Logon, and then type your User name, Password and Domain.
7. Click “Next”.
8. You can configure the Application that is selected instead of the Desktop. Select Application file name, and then specify Command Line and Working Directory or leave it blank to use Windows NT desktop.
9. Click “Next”.
10. Click “Finish”.

Now the installation of Connection Wizard is finished and it is ready to connect to the server.

3.3.3 Editing and Deleting Connections

1. Select ICA connection to be edited form the Connection Name list.
2. If you click “Edit”, the following window will appear.
3. You can modify on each tap. Refer to the “Additional Creation of ICA Connection” for the related tap information

RDP Connection Editing

1. Select RDP connection to be edited from Connection Name list.
2. Click “Edit” and the following “Edit Connection” will appear.

Edit Connection window consists of the following two tabs.

- Net Connections – enable you to edit the connection or automatically logon.
- Application – unable to move automatically to the file name or working directory path whenever connecting to the server and starting the session.

3. Change the sections that need to be changed in Net Corrections or Application.

4. When it done, click “OK”.

Refer to “Additional Creation of RDP Connection” for more information of each section.

Connection Deleting

1. Select connection to be edited from Connection Name list

2. Click “Delete”.

3. Click “Yes”.

Startup connections Setting

It provides automatic connection to the server whenever the terminal is started up.

1. Click “Startup” and the following Connection Startup window will appear.

2. Select the following Startup Options.

- Make the selected connection your default connection
Connection selected from NEXTERM SE Connection Manager is used as default.
This default connection is highlighted when turning NEXTERM SE on and NEXTERM LGESP Connection Manager screen appears
- Automatically start the selected connection at startup
The system will be started up automatically with the selected connection whenever you operate NEXTERM SE .

3. Click “OK” in order to store the changed data.

Startup Connections Closing

1. Select Auto-start Connection Name, and then click “Startup”. NEXTERM SE Connection Startup screen will appear.

2. Click “Make the selected connection your Default connection”, and then click “OK”. Select Connection, and then click “End”.

3.3.4 Connecting Servers

NEXTERM LE Connection Manager lists all available network connection. In order to connect the server, follow the next steps.

1. Select a Connection Name on the list.

2. Click “Connect” or double click “Connection Name”. If the connection has been defined as automatic logon, NEXTERM SE will be connected and logon automatically.

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3. In case the logon is not automatic, the Window Logon Information window will appear. Typing user's account will complete the logon.

3.3.5 Using of NEXTERM SE Hot Keys

Hot Keys used to simplify the switching process between active sessions.

By using Hot Keys instead of NEXTERM SE Connection Manager, you can switch automatically each program through simple key manipulation.

Hot Key	Function
CTRL+ALT+UP.Arrow	Changes to Up between active sessions
CTRL+ALT+DOWN.Arrow	Changes to Down between active sessions
CTRL+ALT+HOME	Changes to default session automatically
CTRL+ALT+END	The screen will be changed directly to NEXTERM LE Connection Manager.
<F2>	If Connection Manager is running, the screen will be changed Terminal Properties Screen

Unless the Hot Keys are working, refer to the instructions of "Multi Connections Start".

Multi Connections Start

- NEXTERM SE is able to perform multi connections simultaneously and the number of available connections is limited per the RAM capacity.

1. Press CTRL+ALT+END to access into NEXTERM SE Connection Manager.
2. Select Connection Name, and then click "Connect".
- In order to change the connection under operating, you should follow the below steps.
 1. Press CTRL+ALT+END to access into NEXTERM SE Connection Manager.
 2. Select Connection Name and click "Connect", or press CTRL+ALT+UP.Arrow or CTRL+ALT+DOWN.Arrow.

3.4 Client setting and save

3.4.1 Client Setting

Press the mouse right button on the background screen in order to display the menu, and then press Client setting to open window.

- ICA Setting

Press “Global Setting” button in order to change various settings on the window.

- RDP Setting

You can select RDP Encryption Enable option.

3.4.2 SAVE

If you press the mouse right button on the background screen in order to display the menu, and then press “SAVE”. The information that users have changed is saved on the FLASH ROM, so it can not disappear, when the power is gone off.

3.5 Closing connections

3.5.1 Disconnecting a connection

Click the “system exit” in its Windows Start menu. “Logoff” or “Disconnect” will be displayed. “Logoff” closes all application programs and “Disconnect” leaves application programs operating and just disconnects from the server. If you end the system using “Disconnect”, the same environment as before will be configured when connecting the same account.

3.5.2 Terminal Ends

Press the mouse right button on the background screen in order to display the menu, and then press Shutdown to open the window.

- Check the Suspend System, and then press “OK”. The terminal will be the “suspend mode”.

When pressing the power button again, previous task environment will be executed. But the network session may be disconnected due to connected environment and return time.

- System, and then press I be rebooted. Unsaved information will disappear.

4. Troubleshooting

This section provides some solutions to occurred problems during operating NEXTERM SE .

The monitor screen is blank

- Check whether the power cord has been inserted properly into the terminal.
- Check whether the power cord has been inserted properly into an AC outlet.
- Check whether the screen is OFF.
- Check whether the system is on SUSPEND mode.

The mouse does not work

- Check whether the mouse jack has been inserted properly the mouse port.
- Check whether the mouse ball is operating freely.

The Keyboard does not respond

- Check whether the keyboard has been connected properly to the keyboard port.
- Check whether power is being supplied properly to NEXTERM SE .

The Network connection does not work

- Check whether the cables are connected properly to the LAN port.
- Verify the network settings.
- Check whether the network address is valid.
- Verify the configuration of the server terminal.

5. System Specifications

The specification of NEXTERM SE is listed as below.

■ Hardware Specification

Item	NEXTERM SE
CPU	- Intel Strong ARM 32Bit RISC Processor - 206 MHz (235MIPS)
Flash Memory	- 8MB FLASH - Expandable to 16MB
RAM Memory	- 16MB SDRAM - Expandable to 32MB
Audio	- 16-bit stereo
Video	- 1024 X 768 16 bit True colors - Up to 1280 X 1024 256 colors

■ Communications and Input/Output Specification

Item	NEXTERM SE
Networking Protocol	- Ethernet 10 Base T Ethernet - TCP/IP with DNS, DHCP, and PPP
Communication Protocol	- Microsoft RDP - Citrix ICA
Serial Port	- 1 DB-9 RS232C Serial Port
Display Port	- Analog VGA Video Output
Audio Port	- Earphone Jack - Microphone in
Keyboard and Mouse Port	- Keyboard and Mouse Port (PS/2 Keyboard and Mouse included)

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