

EUT:NETGENESIS4

FCC ID:L4ONWG4

CIS TECHNOLOGY INC.

USER'S MANUAL

### NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection. This equipment generates, uses and can radiated 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables (except TP Data Cable) must be used in order to comply with emission limits.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1 Getting Start  
 1.1 Feature

This NetGenesis4 combining HUB, Router, and high-speed serial interface is a user-friendly SOHO (Small Office, Home Office) appliance.

Glossary	
Router	A device connects different LANs and networks.

● 10BASE-T HUB (4 RJ-45 ports)

Four Ethernet 10BASE-T ports

Glossary	
Ethernet	A network protocol scheme originally developed by Xerox, DEC, and Intel for local network, includes 10BASE-T and 10BASE-5 etc.
10BASE-T	One of Ethernet protocol. Maximum data transmit rate on this protocol is 10M bits per second with RJ-45 connection.
HUB	A device inter connects 10BASE-T(RJ-45) lines as a LAN.

● High Speed Serial Interface (2 RS-232C ports)

Two RS-232C high-speed serial interfaces with maximum 460.8bps data transmit rate.

Glossary	
Serial Interface	The interface between systems and serial communication (transmit data one bit at a time) devices, such as MODEM and Terminal Adapter (TA).

● ISP - Terminal IP Dial-Up Connection

Capability to have Terminal IP connection with ISP through dial-up line.

Glossary	
ISP (Internet Service Provider)	An organization that allows contracted user connects to Internet through its facility.
IP dial-up connection	The method to connect Internet through dial-up network and devices such as MODEM or TA.
Terminal IP dial-up connection	Connecting local PC or terminal to Internet though dial-up contracted ISP.

- **RAS Client IP Connection**

Connecting RAS Client Dial-Up Connection

<b>Glossary</b>	
<b>RAS (Remote Access Service)</b>	A service allows remote computer connects to local network through PSTN (Plain Simple Telephone Network) dial-up.
<b>Client</b>	In networking, the terminal who accept services.
<b>Server</b>	In networking, the terminal who offer services.

- **RAS Server IP Connection**

Allow RAS clients to connect as a server.

- **Connect multiple computers to Internet**

With NAT / IP masquerade function, more than one terminal (maximum 256 sections under masquerade) can connects to Internet at the same time.

<b>Glossary</b>	
<b>IP Address</b>	When using TCP/IP protocol, every terminal has to have a unique identification, which is IP address.
<b>NAT (Network Address Translator)</b>	With NAT or IP masquerade, multiple users can connect to Internet through a single connection. For NAT, the private IP address should mapping to global IP address. Therefore, the number of users on line depends on the number of global IP address.
<b>IP masquerade</b>	For IP masquerade, one global IP can be divided and sharing with many private IP. This will not constricted by the IP number from RAS server, like NAT.
<b>Private IP Address</b>	The unique terminal identification within local network.
<b>Global IP Address</b>	The unique terminal identification on Internet.

- **ISP auto connecting and disconnecting**

Internet software, (i.e. web browser or e-mail application) can initial connection through NetGenesis4 and auto disconnects when data transmitting is idle.

- **ISP - LAN Dial-Up IP Connection**  
Connecting LAN and Internet through dial-up network to ISP to enable bi-directional communication.

<b>Glossary</b>	
<b>LAN (Local Area Network)</b>	A computer communication system limited to no more than a few miles and using high-speed connection (2 to 100 megabits per second).
<b>LAN dial-up IP connection</b>	Connecting LAN and Internet through dial-up network to ISP to enable bi-directional communication

- **ISP - Leased Line IP Connection**  
Internet connection with leased line, OCN economy and ODN economy connection

<b>Glossary</b>	
<b>Leased Line IP Connection</b>	A leased line is a fixed connection between two designated points. The rate is counted by installed duration, not by connecting time comparing to dial-up connection) Connecting to Internet through leased line connection with ISP is Leased Line IP Connection.
<b>OCN (Open Computer Network) Economy</b>	The leased line service provided by NTT
<b>ODN (Open Data Network) Economy</b>	The leased line service provided by Japanese Telecom

- **Local - Leased Line Connection**  
Connecting different private business network and LANs through leased line or connecting Digital Access 64/128

<b>Glossary</b>	
<b>Digital Access 64/128</b>	A digital communication service provided by NTT which allow 64K and 128Kbps digital communication within 30KM wiring area.

<b>Important</b>	When connecting with leased line Please make sure your TA or MODEM can be connected in leased line mode. Some TA or MODEM cannot make the leased line connection.
------------------	--

- **Telephone Dial**

Connecting to ISP without auto disconnecting if Telephone Dial is activated and the time is during the setup period (PM11:00 ~ AM 8:00)

<b>Glossary</b>	
<b>Telephone Dial</b>	A log in service provided by NTT which allow user to use telephone service from PM11:00 ~ AM8:00 at a discount rate, regardless the connection time.

- **AT command control for MODEM or TA**

Through AT command, MODEM or TA can be initiated and perform auto connecting and disconnecting.

<b>Glossary</b>	
<b>AT command</b>	The command developed by Hayes to control MODEM and TA

- **Initial Setup Utility by LAN port**

Setup Utility can be controlled and initialed through LAN port

- **Setup Utility**

Setup Utility for user friendly interface and easy installation, even for the beginner.

- **Flash ROM**

The control program is in Flash ROM of NetGenesis4. User can easily upgrade firmware when necessary

<b>Glossary</b>	
<b>Firmware</b>	The program controls the NetGenesis4.
<b>Flash ROM</b>	A memory device which can store data and programs (usually BIOS and control program) and easily to write and read.