| FCC Part 15 Notice |

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. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Class B 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 not 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 the receiving antenna.
- Increase the separate between the equipment and the 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.

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CAUTION: Changes of modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment. Thank you for using the product of Corecess. This manual helps users to install the Corecess SHDSL Modem Corecess 3311N and Corecess 3312N.

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Introduction

The Corecess 3311N and Corecess 3312 N are Single-pair High-speed Digital Subscriber Line (SHDSL) modems used for connection to the Internet or corporate intranets over ordinary telephone lines.

Key Features

The Corecess 3311N and Corecess 3312N SHDSL modem provides the following key features:

- Provides auto-negotiating 10/100Base-TX Ethernet interface.
- Provides SHDSL interface supporting the following data transmission rate:
 - Corecess 3311N : up to 2.3 Mbps for both upstream and downstream (2-wire mode)
 - Corecess 3312N : up to 4.6 Mbps for both upstream and downstream (4-wire mode)
- Supports both symmetric and asymmetric services.
- Supports both adaptive and fixed data rate modes.
- Supports both server (CO) and client (CPE) operation modes.
- Supports PPPoE, PPPoA, IPoA, RFC 1483 bridged/routed protocols.
- Supports static routing and dynamic routing (RIP v1 and RIP v2)
- Supports DHCP (Dynamic Host Configuration Protocol) server and client for dynamic IP address allocation.
- Supports DNS (Domain Name Server) client and relay for easy mapping the domain name and IP address.
- Supports NAT (Network Address Translation) for conservation of registered IP addresses.
- Supports Telnet and HTML browser interface for configuring the SHDSL modem.
- Can upgrade the latest modem software remotely using TFTP or FTP.
- Supports Back-to-Back Connections for high-speed LAN extensions over a private network.

Before Installing

Safety Precautions

When installing or using the SHDSL modem, the following safety precautions should always be followed.

- Do not use the SHDSL modem near water, for example, near a bath tub, wash bowl, kitchen sink of laundry tub, in a wet basement or near a swimming pool.
- Use caution when installing or modifying telephone lines to prevent electric shock.
- Do not connect or disconnect telephone lines during periods of lightning activity.
- Use only the power supply and power cord provided with the SHDSL modem.

Unpacking the Box

Check the shipping carton carefully to ensure that the contents include the items you ordered.





Note: The PC with a Ethernet port or adapter is neccessary to install the SHDSL modem. Before installing the SHDSL modem, prepare a PC with Ethernet port or adapter.



Caution: To reduce the risk of fire, use only No. 26AWG or larger telecommunication line cord.

Installing the SHDSL Modem



- Connect the provided SHDSL cable to the wall receptacle and connect the other end of the cable to the LINE port of the SHDSL modem.
- Connect the provided Ethernet cable to the LAN port of the SHDSL modem and then connect the other end of the cable to Ethernet port on the NIC installed to your PC.
- S Connect the provided power supply cable into the DC IN port of the SHDSL modem.
- Onnect the provided power cord to the power supply and connect the other end of the cord to an appropriate electrical outlet.
- **5** Turn on the SHDSL modem with the power switch on the rear panel of the SHDSL modem.
- 6 Power on your PC.



Caution: You should power on the SHDSL modem before powering on your PC. If you power on your PC first, PC's IP address may not be properly assigned. In this case, assign new IP address referring to 'Troubleshooting' on page 10-11 or restart your PC.

LED Operation

When you have powered up the SHDSL modem, check the status of the four LEDs on the front panel by the following table:

LED	Color	Status	Description
POWER		ON	DC power is being supplied to the SHDSL modem.
LINK	Croon	ON	The modem is connecting to SHDSL network.
LAN	ON		The LAN port is connecting to Ethernet port on your PC.
DATA		Blink	Data is being sent to or received from SHDSL network.

| Table 1 System LEDs |

6

Configuring the TCP/IP

After you install the SHDSL modem, next is to configure the TCP/IP network protocol.



Note: This section describes how to set your PC to allocate a dynamic IP address from your ISP supporting DHCP server function. If your ISP does not support DHCP server function, contact your ISP.



Caution: When you configure the TCP/IP, leave the default value of any other configuration that is not mentioned in the following description.

Windows 95/98/ME

- Click the Start button and select Settings → Control Panel. (Figure 1)
- 2. Double-click the Network 📲 icon.

Tind Image: Dep		Settings	•	-	Control Panel	
Help Iaskbar & Start Menu Image: Bun Image: Start Menu Image: Log Off Han Image: Active Desktop	2	Find	•	3	Printers	
Bun Description Log Off Han Active Desktop	0	<u>H</u> elp		-	Taskbar & Start Menu	
🝰 Log Off Han 🗹 Active Desktop		<u>R</u> un			Eolder Options	
	٢	Log Off Han		2	Active Desktop	1
🔊 Shut Down 🦄 Windows Update	j,	Shut Down		•	Windows Update	

- Select TCP/IP in the 'The following network components are installed' list and click Properties. (Figure 2)
- 4. Select the [IP Address] tab and click the Obtain IP address automatically. (Figure 3)
- 5. Select the [DNS Configuration] tab and click the Disable DNS. (Figure 4)

twork ? 🗙	TCP/IP Properties			?
figuration Identification Access Control	Bindings	Advar	nced N	etBIOS
The following petwork components are installed:	DNS Configuration	Gateway \	VINS Configuration	IP Addre
Chert for Microsoft Networks Control Family Logon Polisity Adapter Polisity Adapter TCP/P > Disklp Adapter	An IP address can If your network doe your network admit the space below.	be automatica es not automal nistrator for an	ally assigned to this o tically assign IP addr address, and then t	:omputer. esses, ask ,pe it in
	C Specily an IP	address auton address:	natically	
Client for Microsoft Networks	Sufinet Mas	× .		
Description TCP/IP is the protocol you use to connect to the Internet and wide area networks.				
OK Cancel	J		ОК	Cancel
Figure 2		Figu	re 3	

- 6. Select the [Gateway] tab and check there is no gateway installed. If there are installed gateways, delete them by clicking [Remove]. Click OK. (Figure 5)
- 7. At the <Network> dialog box, click OK. The system prompts you to restart. Click Yes.

CP/IP Properties	<u>?</u> ×
Bindings Adv DNS Configuration Gateway	anced NetBIOS WINS Configuration IP Address
Disable DNS	
C Enable DNS	
Host:	Domain:
DNS Server Search Order -	
	nemove
Domain Suffix Search Order	
	Add
	Bemove
	UK Cancel
Fig	ure 4





Windows 2000/NT

- Click the Start button and select Settings → Network and Dialup Connections. (Figure 1)
- Right-click the Local Area Connection icon at the <Network and Dial-up Connections> windows and select Properties menu. (Figure 2)



Figure 2

Rename Properties

- 3. At the <Local Area Connection Properties> dialog box, select the Internet Protocol (TCP/IP) in the 'Components checks are used by this connection' list and click Properties. (Figure 3)
- 4. At the <Internet Protocol (TCP/IP Properties)> dialog box, click the Obtain an IP address automatically and the Obtain DNS server address automatically. Then click Advanced to check the TCP/IP settings for accuracy. (Figure 4)



Obtain an IP address automatically	
Use the following IP address:	
IP address:	
Subnet mask:	
Default gateway:	
Obtain DNS server address automatically	
Use the following DNS server addresses:	
Preferred DNB server:	
Alternate DNG server:	

- 5. The <Advanced TCP/IP Settings> dialog box appears. At the [IP Settings] tab, check that the IP Address is set to Enable DHCP. (Figure 5)
- 6. Select the [DNS] tab and check that the Append primary and connection specific DNS suffix is selected. Click OK. (Figure 6)





Windows XP

- 1. Click the Start button and select Settings menu. (Figure 1)
- **2**. Double-click the Network **Q** icon at the <Control Panel> window.
- 3. Right-click the Local Area Connection icon at the <Network Connections> windows and select Properties menu. (Figure 2)
- 4. At the <Local Area Connection Properties> dialog box, select the Internet Protocol (TCP/IP) in the 'This connection uses the following items' list and click Properties. (Figure 3)





5. At the <Internet Protocol (TCP/IP) Properties)> dialog box, click the Obtain an IP address automatically and the Obtain DNS server address automatically. Then click Advanced to check the TCP/IP settings for accuracy. (Figure 4)



ou car	Alternate Configuration get IP settings assigne ability. Otherwise, you n printe IP settings	d automatically if y eed to ask your ne	our network s twork adminis	upports trator for
(i) Ob	tain an IP address auto	matically		
OUs	e the following IP addre	iss:		
IP ad	dress:			
Subn	et mask:			
Defa	it gateway:	1		
💿 06	tain DNS server addres	s automatically	ו	
OUs	e the following DNS ser	ver addresses:		
Prefe	red DNS server.			
Alterr	ate DNS server.			
			Adv	/anced.
_			OK	Car

- 6. The <Advanced TCP/IP Settings> dialog box appears. At the [IP Settings] tab, check that the IP Address is set to Enable DHCP. (Figure 5)
- 7. Select the [DNS] tab and check that the Append primary and connection specific DNS suffix is selected. Click OK. (Figure 6)

Submet mask Edt Remove
Edt Remove
Metric
Metric
Edt Remove

5

IP Settings	DN2	WINS)ptions						-	
DNS server	addresse	s, in order	r of use	e -			_			
								t		
								Ļ	f II	
		bhé	٦r	Edit		Bemo	VA		1	
The followin	ur Hyren o	attings are		d to all c	onned	ione with	TCP/	D		
enabled, Fo	ng trilee s x resolutio	enings are on of unqu	alfied a	names:	onneci	IUNS WITH	TUP/I	-		
 Append 	primary a	nd connec	ction sp	pecific D	NS suff	ixes				
✓ App	end parer	v sunxes	or the j	primary L	IND SU	itik	_			
Append	end parer these DN	x sumxes IS suffixes	or the j : (in ord	primary L ler):	JNS SU	lik.				
Append	end parer these DN	k sunixes IS suffixes	or the j : (in ord	primary L ler):	JN5 su	'to:		t		
Append	end paren these DN	v sunixes IS suffixes	or the (in ord	primary L ler):	JNS SU	ΠK		t		
Append	end paren these DN	k suffixes	or the j	primary L ler):	JNS SU	Remo		t		
Append	end paren these DN	K summes IS suffices Add	or the j	Edit	JIN 5 80	Remo	ve	t		
Append	end paren these DN for this co	Add	or the j	primary L ler): Edit	UNS 80	Remo	ve	t		
Append Append DNS suffx Register	end paren these DN for this co this conr	Add	or the j : (in ord	pinnary L ler): Edit es in DN	IS	Remo	ve	t		



Troubleshooting

If you cannot connect to SHDSL network, please check the status of the LEDs on the front panel, and then ensure the following:

1. Check the LAN LED

If the LAN LED goes off, ensure that the Ethernet cable is firmly connected both to the LAN port on the SHDSL modem and Ethernet port on your PC.

2. Check the LINK LED

If the LINK LED blinks continuously and never stays solid on, ensure that the SHDSL cable is firmly connected to the LINE port on the SHDSL modem. If the LINK LED still blinks, contact your SHDSL service provider.

If the LINK LED goes off, turn off the power of the SHDSL modem by pressing the power switch and turn on the power again. If LINK LED still goes off, contact your vendor.

3. Check your PC's IP address

If all LEDs operate normally and cables are firmly connected to the ports, ensure that your PC's IP address is properly assigned. Otherwise assign a new IP address according to your operating system.

Windows 95/98/ME

• Click the Start button and select Run.



Input Winipcfg and press the [Enter] key.



• Select Ethernet adapter connected with the SHDSL modem and click Release All.

P Configuration			
Ethernet Adapter Informatio	n		
	NDI	S 5.0 driver	-
Adapter Addr	ess 👘	00-40-95-34-47-1D	
IP Addr	ess	0.0.0.0	
Subnet Ma	ask 🗌	0.0.0.0	
Default Gatew	ay		
ок	Releas	e Re <u>n</u> ew	
	Rene <u>w</u>	All <u>M</u> ore Info	»»

Olick Renew All.

Adapter Address 00-40-95-34-47- IP Address 192.168.1.101 Subnet Mask 255 255 255 (
IP Address 192.168.1.101 Subnet Mask 255.255.255.0
Subnet Mask 255 255 0
200.200.200.0
Default Gateway 192.168.1.1

Windows 2000/NT/XP

• Click the Start button and select Run.

Programs	•
😂 Documents	•
🔛 Settings	•
🔏 Search	•
🧼 Help	
💯 Run	
Shut Down	
Start	

Input cmd and press the [Enter] key.

Run			? ×
<u>;</u>	Type the name of a pro Internet resource, and	gram, folder, do Windows will ope	cument, or en it for you.
Open:	cmd		•
	OK	Cancel	Browse

• The DOS-prompt appears. Input ipconfig /release and press [Enter] key.



● Input ipconfig /renew and press [Enter] key.



4. Restart your PC

If new IP address is not assigned properly or you cannot solve the problem, ensure that the SHDSL modem turns on and then restart your PC.

Product Specifications

Hardware Specifications

| Table 2 Hardware Specifications |

Description	Specification
	Ethernet Interface
	• 10/100Base-TX
	• Distance: Up to 100m
	• Connector: RJ-45
	SHDSL Line Interface
Interfaces	• ITU-T G.991.2 (G.SHDSL)
	• Line Code: TC-PAM
	Data Transmission Rate
	- Corecess 3311N: up to 2.3 Mbps in 2-wire mode
	- Corecess 3312N: up to 4.6 Mbps in 4-wire mode
	• Distance: 3Km, up to 8Km @ 26AWG
	• Connector: RJ-11
	• 1 RJ-11 connectors (LINE)
Connectors	• 1 RJ-45 connector (LAN)
	• 1 Power socket (DC IN)
	• POWER: Indicates DC power status
	• LINK: Indicates the connection status with SHDSL network
LEDS	• LAN: Indicates the connection status with Ethernet network
	• DATA: Indicates data transmit/receive status via SHDSL network
	• Operating Temperature: 32 to 122°F (0 to 50°C)
Environmental	• Storage Temperature: -40 to 158°F (-40 to 70°C)
Conditions	• Humidity: 5 to 90% (non-condensing)
Physical	• Dimension: 140(W) x 150(D) x 30(H) mm
Conditions	• Weight: 250 g
Power	• Power Input: 100 to 240 VAC (auto-ranging), 50-60Hz, DC 5V/2A
Requirements	Power Consumption: Max. 4 Watt

Software Specifications

| Table 2 Software Specifications |

Description	Specification	
ATM Support	 Multiple protocol over ATM AAL5 (MPOA, RFC 2684) PPP over ATM (RFC 2364) Classical IP over ATM (RFC 2225) ATM with up to 8 VCs support ATM Forum UNI 3.0/4.0 PVC I.610 OAM F4/F5 RDI/AIS, CC, Loopback 	
Routing Support	 Static routing Dynamic routing (RIP v1 and RIP v2) DHCP (Dynamic Host Configuration Protocol) server, client, and relay DNS (Domain Name Server) client and relay NAT (Network Address Translation) 	
Bridging Support	Transparent Bridging (IEEE 802.1D)RFC 2684 (formerly RFC 1483) Bridged Mode	
Management	 CLI (Command Line Interface) Remote management with Telnet or HTML browser interface TFTP or FTP for software updates and configuration Configuration file backup and restoration SYSLOG for remote status monitoring SNMP v1 and SNMP v2 MIB (Management Information Base) 	
Security	 IP/Protocol/Port Packet Filtering IP Policy Routing NAT supports PAT(Port Address Translation) DMZ Password Protected System Management Terminal PAP (Password Authentication Protocol) CHAP (Challenge Handshake Authentication Protocol) 	