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Using This Document

Thank you for using the product of Corecess. This manual will show you how to set up the Corecess 3221 VDSL modem, and how to customize its configuration to get the most out of your new product.

This user manual uses the following conventions:



Note: Introduces useful item for the use of product, reference, and its related materials.



Caution: Explains possible situations or conditions of improper operation and possibility of losing data and provides suggestions how to deal with those cases.

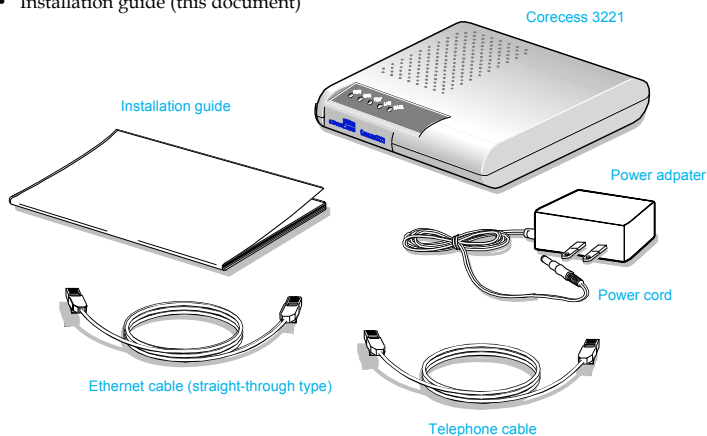
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Unpacking the Box

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

- Corecess 3221 VDSL modem
- Power adapter and power cord
- Telephone cable
- Ethernet cable (“straight-through” type)
- Installation guide (this document)



Note: The PC with Ethernet port or adapter is not provided but necessary to install and configure the Corecess 3221. Before installing the Corecess 3221, prepare a PC.

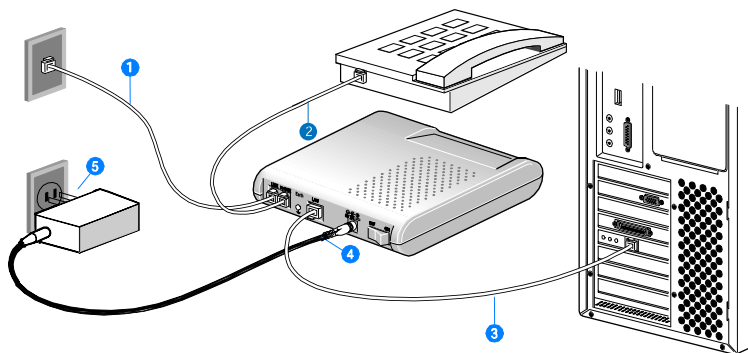


Caution: To reduce the risk of fire, use only No. 26AWG or larger telecommunication line cord.

Connecting Cables



Caution : Before connecting cables to the Corecess 3221, please check the power switch on the Corecess 3221 is OFF.



❶ Connecting VDSL Line

Unplug the telephone line from the telephone and plug the line to the **LINE** port of the Corecess 3221.

❷ Connecting a Telephone

Connect a provided telephone cable to the **PHONE** port of the Corecess 3221 and a telephone.

❸ Connecting a PC

Connect the provided Ethernet cable to the **LAN** port of the Corecess 3221 and then connect the other end of the cable to **Ethernet** port on the NIC installed to your PC.

❹ Connecting Power Adapter

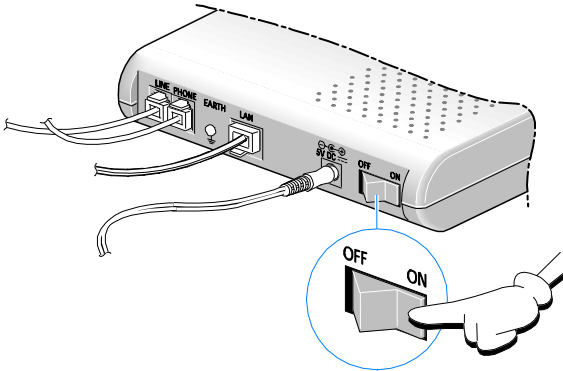
Connect the provided power supply cable into the **5V DC** port of the Corecess 3221.

❺ Connecting Power Cord

Connect the provided power cord to the power supply and connect the other end of the cord to an appropriate electrical outlet.

LED Operations

When you have finished cabling, turn on the Corecess 3221 pressing the power switch on the back panel of the Corecess 3221 to the ON position.

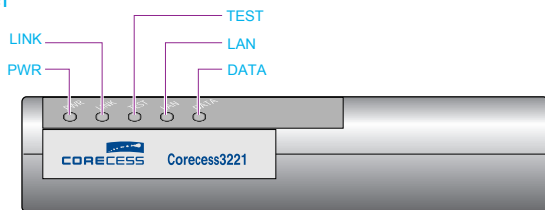


And then, check the status of the four LEDs on the front panel by the following table:

LED	Color	Status	Description
PWR	Green	ON	DC power is being supplied to the Corecess 3221.
LINK		ON	The Corecess 3221 is connected to VDSL network.
TEST		OFF	The loopback test is finished.
LAN		ON	The Corecess 3221 is connected to the PC normally.
DATA		Blink	Data is being sent to or received from the Corecess 3221 through the VDSL network.

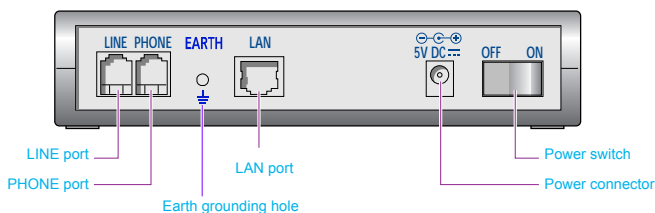
Front and Rear Panels

Front Panel



Label	Color	Function
PWR	Green	When the Corecess 3221 is powered on, the PWR LED is ON.
LINK	Green	During establishing VDSL link, the LINK LED is blinking. When the VDSL link is established, the LINK LED is solid ON.
TEST	Green	During the loopback test, the TEST LED is ON. When the loopback test is finished, the TEST LED goes off.
LAN	Green	When the Corecess 3221 is connected with your PC, the LAN is ON.
DATA	Green	When data is sending/receiving between the Corecess 3221 and your PC, the DATA LED is blinking.

Rear Panel



Label	Function
LINE	Connects the device to a telephone jack for VDSL communication.
PHONE	Connects to a telephone.
Earth grounding hole	Connects to Frame Ground for earthing.
LAN	Connects the device to your PC's Ethernet port using the cable provided.
5V DC	Connects to the supplied power converter cable.
OFF/ON	Switches the unit on or off.

Technical Specifications

Description	Specification
Standard	VDSL Standard
	<ul style="list-style-type: none"> • ETSI VDSL Standard • ITU ITU-T G.993.1
	IEEE Standard
	<ul style="list-style-type: none"> • IEEE 802.3 10Base-TX • IEEE 802.3u 100Base-TX
Interface	Ethernet Interface
	<ul style="list-style-type: none"> • 10/100Base-TX (IEEE 802.3, Auto-negotiation) • Connector: RJ-45
	VDSL Interface
	<ul style="list-style-type: none"> • Connector: RJ-11
VDSL	Modulation
	Quadrature Amplitude Modulation (QAM)
	Transmission
	Full-duplex, Frequency Division Multiplexing (FDD)
	Data Rate
	<ul style="list-style-type: none"> • Symmetrical : 1Mbps~26Mbps • Asymmetrical : 50/30Mbps~1/1Mbps (Downstream/Upstream)
	Rate & Reach
	<ul style="list-style-type: none"> • 300m <ul style="list-style-type: none"> - Symmetrical: 50/7Mbps over (Downstream/Upstream) - Asymmetrical: 25Mbps over • 1Km <ul style="list-style-type: none"> - Asymmetrical: 25/3Mbps over (Downstream/Upstream) - Symmetrical: 13Mbps over • Cable : CPEV 0.5 mm
	Band Plan
	<ul style="list-style-type: none"> • Plan998 supported.

(Continued)

Description	Specification
VDSL	PSD MASK
	ETSI, ANSL, ITU-T(G.993.1) VDSL Standards
	Upstream Power-back-off
	Upstream Power-back-off supported
	Loopback
	Local and remote loopback for the network connectivity test.
	CPE Configuration Auto configurable: <ul style="list-style-type: none">• VDSL line rate• Port parameters (10/100Base-T Auto-Negotiation)
Connectors	<ul style="list-style-type: none">• Two RJ-11 connectors (LINE, PHONE)• One RJ-45 connector (LAN)• Power connector (5V DC)
LED	<ul style="list-style-type: none">• PWR : Indicates DC power status.• LINK : Indicates connection status with VDSL network (physical link).• TEST : Indicates the loopback test status.• LAN : Indicates connection status with LAN card on the PC.• DATA : Indicates data activity with the Corecess 3221 and PC.
Environmental Conditions	<ul style="list-style-type: none">• Temperature: 0°C ~ 50°C• Humidity: 5% ~ 90%
Physical Conditions	<ul style="list-style-type: none">• Dimension: 160(W) x 160(D) x 35(H) mm• Weight: 300g
Power Requirements	<ul style="list-style-type: none">• Input: 100-240VAC, 50-60Hz, DC 5V/2A• Power consumption: Max. 5 Watt

