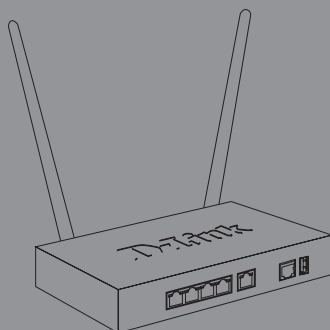




Quick Installation Guide

This document will guide you through the basic installation process for your new D-Link Nuclias Cloud-Managed Wireless VPN Gateway

DBG-X1000



About This Guide

This guide gives step by step instructions for setting up D-Link DBG-X1000. Please note that the model you have purchased may appear slightly different from those shown in the illustrations.

Unpacking the Product

Open the shipping carton and carefully unpack its contents. Please consult the packing list located in following information to make sure all items are present and undamaged. If any item is missing or damaged, please contact your local D-Link reseller for replacement.

- One (1) DBG-X1000 One (1) 12V/2A Power Adapter
- One (1) Console Cable (RJ45-to-DB9 Cable)
- One (1) Ethernet (CAT5 UTP/Straight Through) Cable
- Four (4) Rubber foot
- Two (2) Antenna

Product Overview

This chapter provides detailed descriptions of the DBG-X1000 device and its components.

Front Panel

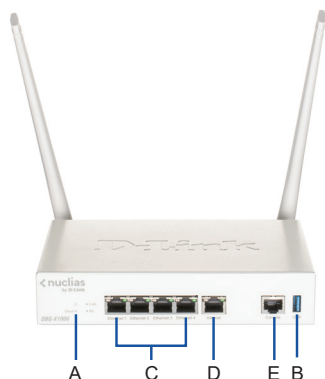


Figure 1. DBG-X1000 Front Panel

Item	Feature	Description
A	LED (Top to bottom)	Power LED: Indicates the device is powered on.
B	USB Port (1)	It can support various USB 2.0, 3.0 devices below: 1. Flash Disk or Hard Disk for network sharing. 2. Printer (It will be supported by future firmware upgrade)
C	Gigabit LAN port (1-4)	Connect Ethernet devices, such as computers, switches and hubs.
D	Gigabit WAN port (1)	One auto MDI/MDIX WAN ports are the connection for the Ethernet cable to the cable or DSL modem.
E	Console Port (1)	Used to access Command Line Interface (CLI) via RJ45-to-DB9 console Cable.

Table 1: DBG-X1000 Front Panel Descriptions

Device Status LEDs and Ethernet Port LEDs

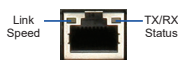


Figure 2. Ethernet RJ-45 Port LEDs

The device LEDs show information about current device status. When the device power up, the POWER/STATUS LED will show solid orange during power on process. Startup takes one minute approximately to complete, the LED will change to solid green. If you want to turn the device off and on again, we recommend you wait a few seconds between shutting it down and powering it back. The Ethernet LEDs show the status of each Ethernet port. Table 2 lists the name, color, status and description of each device LED.

LED Indicators	Color	Status	Description
Power	Orange/ Green	Solid Orange	Device during power-on process
		Solid Green	Completion of power on
		Light Off	The device is power-off
Cloud	Orange/ Green	Solid Orange	Cloud Connecting
		Solid Green	Cloud Connected
TX/RX Status	Green	Light Off	No Link.
		Solid Green	Link present.
		Blinking Green	Port is sending or receiving data.
LINK Speed	Green/ Orange	Light Off	Port is operating at 10Mbps.
		Solid Green	Port is operating at 100Mbps
		Solid Orange	Port is operating at 1000Mbps

Table 2: Device Status LED Descriptions

DBG-X1000 Default Interface Settings

Ethernet Interface	Interface Type	IP Address	Web-Based Management	DHCP Client
LAN(1-4) / WLAN	Static IP	192.168.10.1	Enabled	Enabled
WAN	DHCP Client	0.0.0.0	Disabled	Disabled

Table 3: Default Interface Settings

Note: DBG-X1000 allows Web GUI access from LAN and Wireless interfaces by default for security reason.

Installing and Connecting the Device

This chapter describes how to connect cables and power to the device.

Before You Begin

Observe the following precautions to help prevent shutdowns, equipment failures and injuries:

- Before installation, always check that the power supply is disconnected
- Ensure that the room in which you operate the device has adequate air circulation and that the room temperature does Not exceed 40°C (104°F)
- Allow 1 meter (3 feet) of clear space to the front and back of the device.
- Do not place the device in an equipment rack frame that blocks the air vents on the sides of the chassis. Ensure that enclosed racks have fans and louvered sides.
- Correct these hazardous conditions before any installation: moist or wet floors, leaks, ungrounded or frayed power cables, or missing safety grounds.

Connecting Power and Turn the Device On/Off

The AC/DC Power Adapter shipped with the device connects the device to earth ground when plugged an AC grounding-type power outlet. The device must be connected to earth ground during normal operation.

To connect power to the device, plug the AC/DC power adapter into the DC power phone jet on the

back panel of the device.

Note: We recommend using a surge protector for the power connection.

To power on the DBG-X1000 device, press the DC power switch on the rear panel to the on position. To power off the device, press the power switch to the off position.

Connecting the Device to a Network

This section provides basic information about physically connecting the DBG-X1000 to a network. To connect the necessary cables as shown in Figure 3.

1. Connect an RJ-45 cable from the port labeled WAN to the external router. The port WAN is pre-allocated to the WAN network segment.
2. Connect an RJ-45 cable from the port labeled LAN (1-8) to a switch in the LAN network segment.
3. Connect an RJ45-to-DB9 cable from the console port for CLI (Command Line Interface) management access.

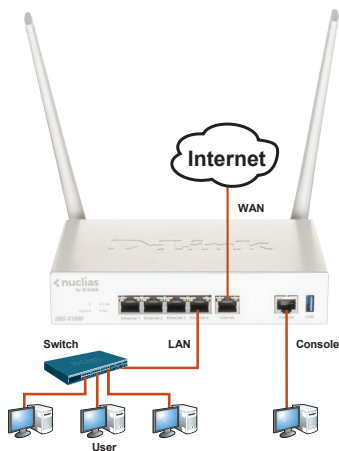


Figure 3. Basic Cabling Example

Initially Configure the Device

The software is preinstalled on the DBG-X1000 device. When the device is powered on, it is ready to be configured. While the device has a default factory configuration that allow you to initially connect to the device, you must perform further configuration for your specific network requirements.

Using the WebUI

To use the WebUI, the workstation from which you are managing the device must initially be on the same subnetwork as the device.

To access the device with the WebUI:

1. Connect your workstation on the port labeled LAN (1-4), which is pre-allocated to the LAN.
2. Ensure your workstation is DHCP Client enabled or configured with a static IP address in the 192.168.10.0/24 subnet.
3. Log on the device web interface the default log on information is:

Username: admin

Password: admin

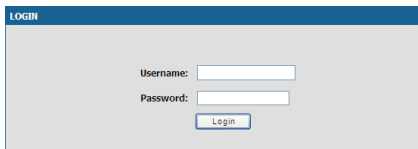


Figure 4. Authentication Message

Using a Console Connection (RJ45-to-DB9 DCE)

The DBG-X1000 provides a serial port that enables a connection to a computer or terminal for monitoring and configuring the device. This port is a RJ-45 connector, implemented as a data communication terminal equipment (DCE) connection.

To use the console port connection, you need the following equipment:

1. A terminal or a computer with both a serial port and the ability to emulate a terminal.
2. A RJ45-to-DB9 RS-232 with female connector. (Already included in packing list)
3. If your Laptop or PC doesn't have RS-232 connector, a converter is required.

Note: DBG-X1000 does not come with RS-232 converter and these must be purchased separately.

To establish a console connection:

1. Plug the RJ-45 connector of the supplied RJ45-to-DB9 cable directly to the console port on the device.
2. Connect the other end of the cable to a terminal or to the serial connector of a computer running terminal emulation software. Set the terminal emulation software as following:

Baud rate: 115200

Data bits: 8

Parity: None

Stop bits: 1

Flow control: None

3. When you have correctly set up the terminal, having previously followed the instructions in section "Connecting Power and Turn the Device On/Off" then switch on your device. The boot sequence appears in the terminal.
4. Once the boot sequence completes, the command prompt is displayed, the device is ready to be configured.

Technical Support

<https://www.dlink.com/support>

Federal Communication Commission Interference Statement

This device complies with 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.

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 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Industry Canada statement

This device complies with ISSED's licence-exempt RSSs. 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.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Caution :

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate;
- (iii) where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

Avertissement:

- (i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- (ii) pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5 725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée, selon le cas;
- (iii) lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, énoncée à la section 6.2.2.3, doivent être clairement indiqués.

Radiation Exposure Statement:

This equipment complies with ISSED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 25cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISSED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 25 cm entre le radiateur et votre corps.

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