



SBG3600-N Series

Quick Start Guide

Version 1.00



SBG3600-N Series

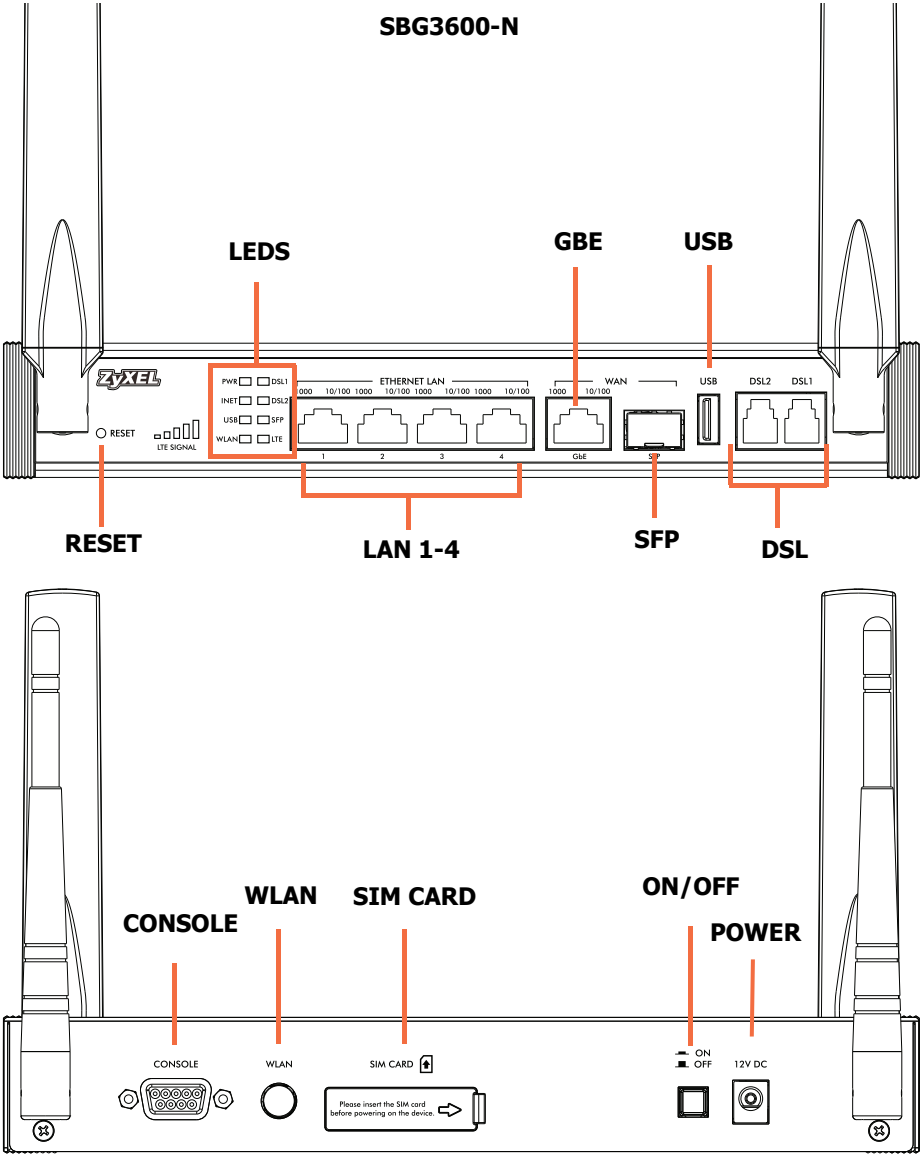
LTE Multi-WAN Small Business Gateway

Version 1.00
Edition 1, 4/2015

Quick Start Guide

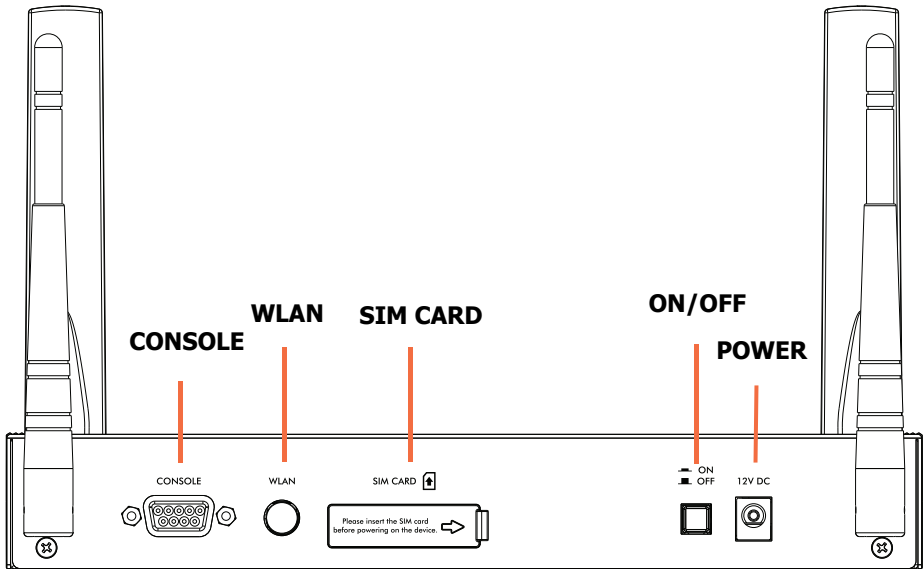
Default Login Details	
LAN IP Address	http://192.168.1.1
User Name	admin
Password	1234

Device Panels



The diagram illustrates the rear panel of the SBG3600-NB device. Key components and their functions are labeled as follows:

- RESET:** A small circular button on the left side of the panel.
- LEDs:** A group of status LEDs including PWR, DSL, INET, LTE, USB, SFP, and WLAN.
- LAN 1-4:** Four Ethernet LAN ports labeled 1, 2, 3, and 4, each supporting 1000, 10/100, and 10/100 Mbps speeds.
- GBE:** A Gigabit Ethernet port labeled GbE, supporting 1000 and 10/100 Mbps speeds.
- SFP:** A Small Form-factor Pluggable port for fiber optic connectivity.
- DSL:** A DSL port for digital subscriber line connectivity.

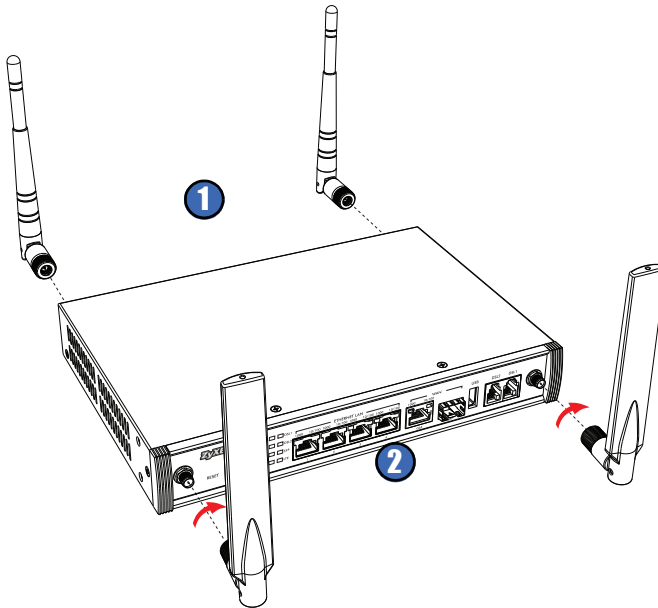


Requirements

Make sure you have the following before you start:

- **INTERNET ACCESS:** You need an Internet account with an ISP (Internet Service Provider) and information such as your user name, password, and so on.
- **WEB BROWSER:** Internet Explorer 8.0 and later versions, with JavaScript enabled, or Mozilla Firefox 3 and later versions, Chrome, or Safari 2.0 and later versions. The browser will be used to access the Internet and/or access the Web Configurator.

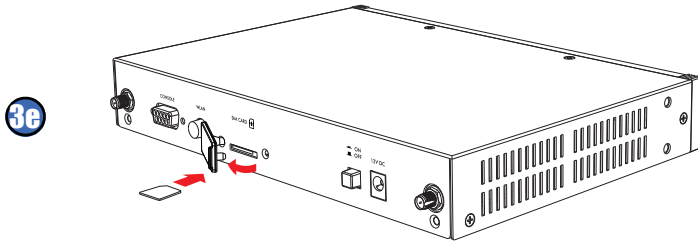
Hardware Setup



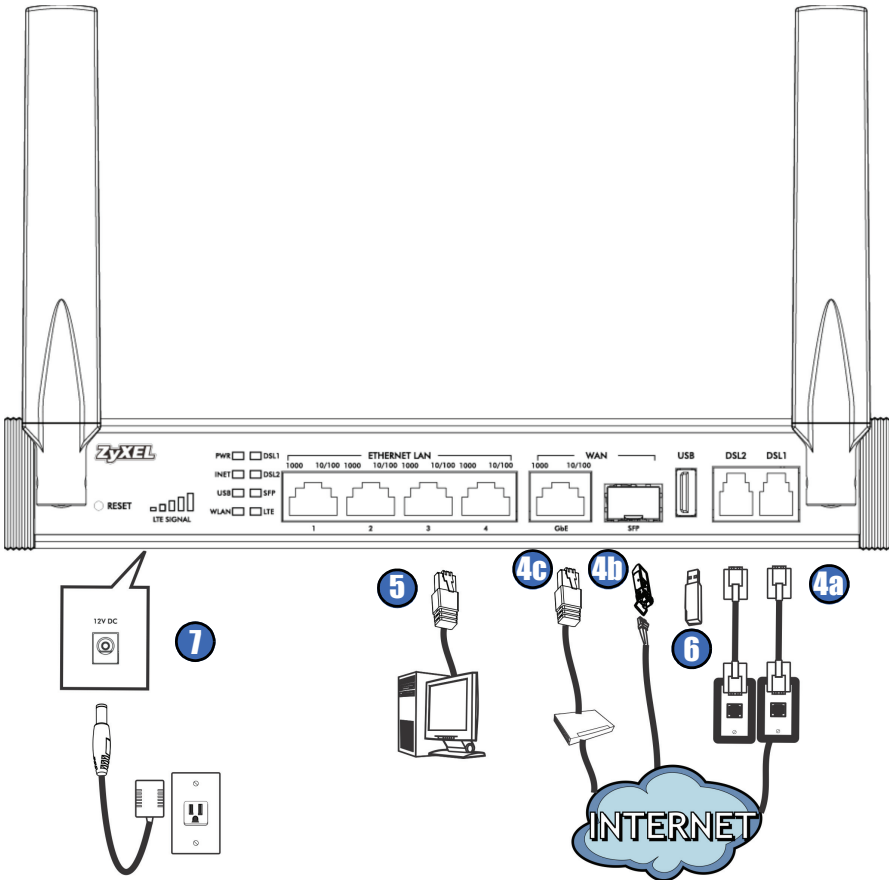
1. Attach the wireless LAN antennas to the rear panel and point them up.
2. Attach the LTE antennas to the front panel and point them up.

3. Insert the LTE SIM card.

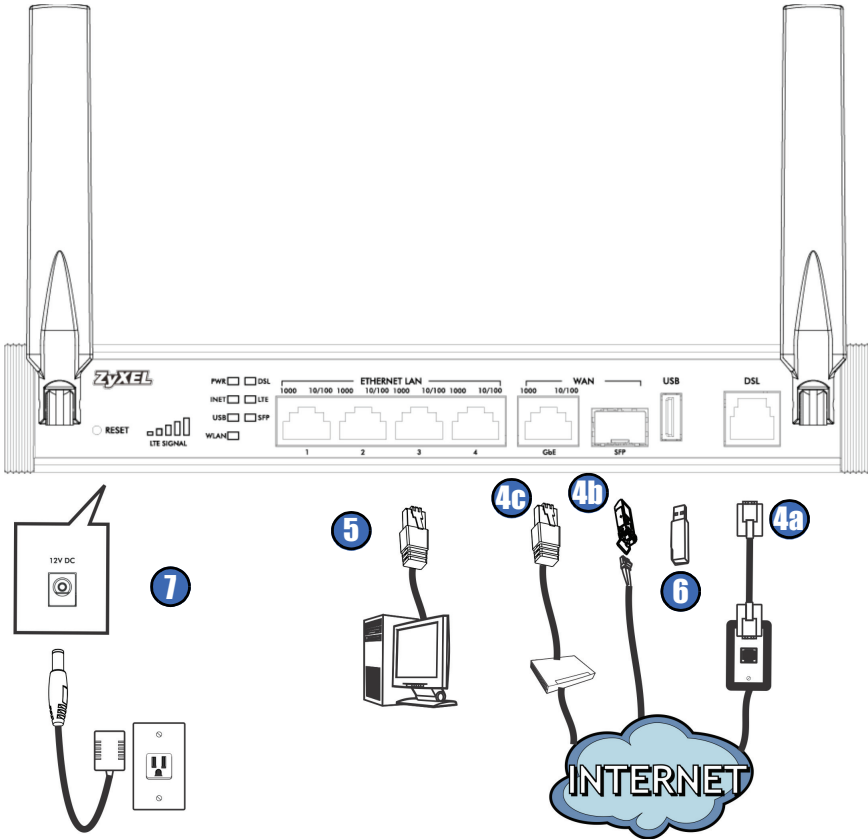
Insert the SIM card before you turn on the Device.



To connect the SBG3600-N:



To connect the SBG3600-NB:



4. Do one or more of the following to connect to the Internet.

- a. **DSL:** Use a telephone cable to connect your Device's **DSL** port to a telephone jack (or the DSL or modem jack on a splitter if you have one).

If your ISP supports DSL bonding, you can connect **DSL1** and **DSL2** to two separate telephone jacks and enable the bonding feature for increased throughput at longer distances. See the User's Guide for how to enable bonding in the Web Configurator. ¹

1. Applies to the SBG3600-N000.

- b. **SFP**: If fiber access is available, insert a fiber optic SFP module and connect the fiber optic cable for Internet access. (See [Transceiver Installation and Removal](#) on page 8 for more information on SFP module.)
- c. **GbE**: If you already have a broadband router or modem, use an Ethernet cable to connect the **GbE** port to it for Internet access.

Your Device does not use Fiber (SFP) and broadband (GbE) connections at the same time.

- 5. **ETHERNET LAN**: Use an Ethernet cable to connect a computer to an Ethernet port for initial configuration and/or Internet access.
- 6. **USB**: Do one of the following USB connections:
 - a. Connect a USB (version 2.0 or lower) memory stick or a USB hard drive for file sharing. The Device automatically detects the USB device.
 - b. Connect a 3G adapter to access the Internet wirelessly via a 3G network.
- 7. **12V DC**: Use the provided power adaptor to connect the **12V DC** socket on the Device's rear panel to an appropriate power source. Push the Device's **ON/OFF** button to the **ON** position. Make sure the power at the outlet is on. Look at the lights on the front panel.
 - The **PWR** light blinks while your Device starts up and then stays on once it is ready.
 - The **DSL** light is green when your Device has an ADSL connection. It is orange when you have a VDSL connection. The **DSL2** light comes on when using DSL bonding¹.
 - The **INET** light turns on when the gateway is able to access the Internet.
 - The **USB** light turns on when your Device detects a connected USB device and blinks when there is traffic.
 - The **SFP** light turns on after your Device has a fiber connection and blinks when there is traffic.

1. Applies to the SBG3600-N000.

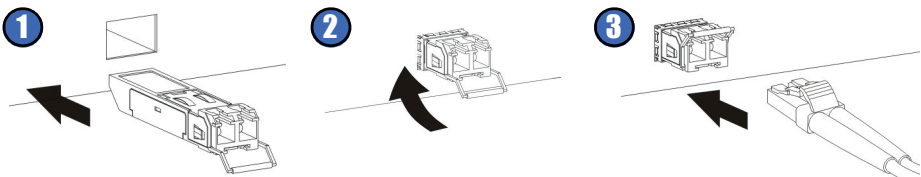
- The **WLAN** light flashes green when WLAN is activated. It stays on green when the wireless LAN is ready and blinks when there is traffic.
- The **LTE Signal** light bars indicate the LTE signal quality. The more bars turn on, the higher the signal quality.
- The **LTE** light flashes green while connecting to the LTE network. It stays on green when the LTE connection is ready.
- An **ETHERNET LAN** port's green light turns on if the port has a 1G LAN connection. Its yellow light turns on for a 10/100M LAN connection. Either light blinks for LAN traffic.
- The **GbE** port's green light turns on if the port has a 1G WAN connection. Its yellow light turns on for a 10/100M WAN connection. Either light blinks for WAN traffic.

If the lights do not come on, check your connections and inspect your cables for damage. If the lights are still off, contact technical support.

Transceiver Installation and Removal

To install a mini-GBIC transceiver (SFP module):

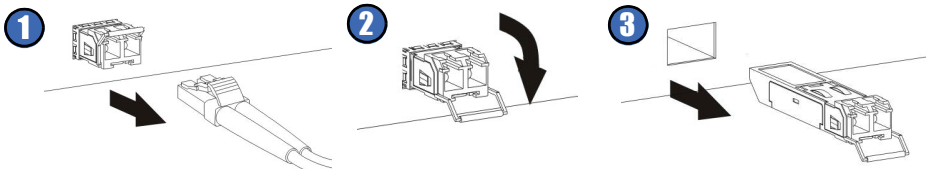
1. Insert the transceiver into the SFP slot.
2. Press the transceiver firmly until it clicks into place and close the transceiver's latch.
3. Connect the fiber optic cables to the transceiver.



To remove a mini-GBIC transceiver (SFP module):

1. Remove the fiber optic cables from the transceiver.
2. Open the transceiver's latch.

3. Pull the transceiver out of the SFP slot.



Set Up a Wireless Network

Wireless LAN is enabled by default. Use the settings on the Device bottom panel to configure wireless devices that you want to connect.

Wireless Settings Example

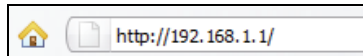
SSID: ZyXEL0A561 WPA2-PSK: FB373BD35636BC45
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The default wireless settings vary by SBG3600-N Series Device. Use the information on the bottom panel of your Device.

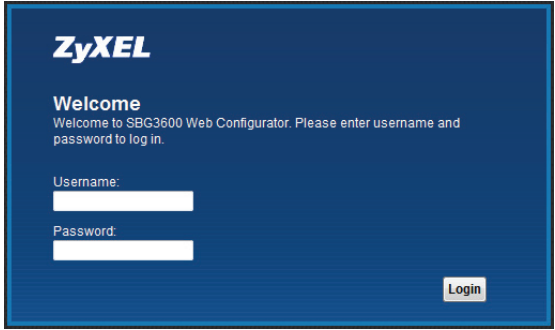
The Web Configurator

Use the Web Configurator web browser tool to configure the Device. Your computer and the Device need to be in the same IP address range to use it.

1. Open your browser and enter **http://192.168.1.1** (the Device's default IP address) as the address.

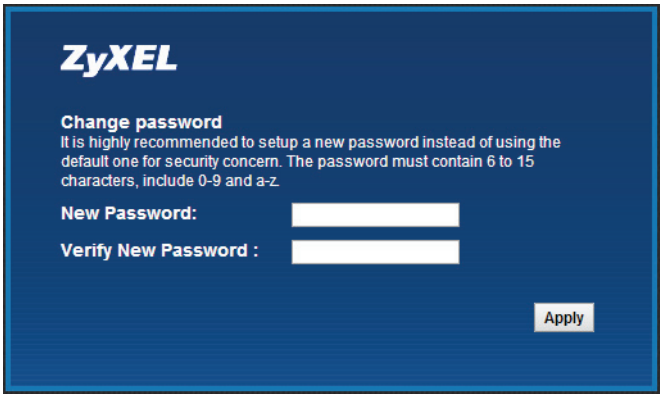


2. Enter the default user name **admin** and password **1234**. Click **Login**.

The image shows the ZyXEL login interface. At the top left is the ZyXEL logo. Below it, the text "Welcome" is followed by "Welcome to SBG3600 Web Configurator. Please enter username and password to log in." There are two input fields: "Username:" and "Password:". A "Login" button is located in the bottom right corner of the form area.

If the login screen does not open, make sure you allow web browser pop-up windows, JavaScript and Java permissions. Your computer should be also set to get an IP address automatically from a DHCP server. See the appendices in your User's Guide for more information.

3. Enter your new login password in the **New Password** field. Re-type your new password in the second field and then click **Apply**. The login screen displays for you to re-login with your new login password.

The image shows the ZyXEL "Change password" interface. At the top left is the ZyXEL logo. Below it, the text "Change password" is followed by "It is highly recommended to setup a new password instead of using the default one for security concern. The password must contain 6 to 15 characters, include 0-9 and a-z." There are two input fields: "New Password:" and "Verify New Password :". An "Apply" button is located in the bottom right corner of the form area.

4. The **Status** screen displays, where you can view the Device's device, interface, and system information.

The screenshot displays the ZyXEL Status screen. On the left is a navigation menu with options: Network Setting, Security, VPN, System Monitor, and Maintenance. The main area is titled 'Status' and contains several sections:

- Device Information:** Host Name: ZyXEL, Model Number: SBG3600, Firmware Version: V1.00(AAKO.0)_01141125A1.
- WAN Information:** WAN Type: LTE, MAC Address: B0:46:FC:00:00:00, IP Address: 0.0.0.0, IP Subnet Mask: 0.0.0.0, Encapsulation: IPoE.
- LAN Information:** IP Address: 192.168.1.1, IP Subnet Mask: 255.255.255.0, DHCP: Server, MAC Address: 00:A0:C5:33:41:00.
- WLAN Information:** MAC Address: 00:A0:C5:33:41:01, Status: On, SSID: ZyXEL34100, Channel: Auto (Current: 11), Security: Mixed WPA2-PSK/WPA-PSK, B02.11 Mode: B02.11b/g/n Mixed, WPS: Off.
- LTE Information:** Link: Down, Device Status: N/A, SIM Card Status: N/A, Signal Quality: N/A, Service Provider: N/A, Connection Time: N/A, LTE F/W Version: N/A, IMEI: N/A, IMSI: N/A.
- System Status:** System Up Time: 0 days: 0 hours: 6 minutes, Current Date/Time: 01 Jan 2014 00:07:33, System Resource: CPU Usage: 2.50%, Memory Usage: 39%.
- WAN Status:** A table showing WAN connections: ADSL (Down, Active, IPoE), VDSL (Down, Active, IPoE), ETHWA... (Down, Active, IPoE), eth3G (Down, Active, Cellular), pppo3G (Down, Pas..., Cellular), LTE (Down, Active, Cellular), l2tp (Down, Active, PPPoL2...).
- Service Status:** A table with columns #, Status, Name, Version, and Expiration. It shows one entry: #1, Status: Enabled, Name: Managed AP.
- IPSec VPN Status:** A table with columns #, Name, Application Scenario, and Remote Gateway Address. It is currently empty.

At the top right, there are links for 'Quick Start' and 'Logout', and a 'Refresh interval' dropdown set to 'None'. A 'Virtual Device' icon is visible on the right side.

5. If your LTE service provider gave you a PIN and/or APN to use, click **Network Setting > Broadband > LTE WAN** to configure them.

Broadband 3G WAN **LTE WAN** Add New 3G Dongle Advanced 802.1x Multi-WAN

You can configure the optional settings for LTE device.

Connection Settings

PIN : (Optional)(Only for unlock PIN next time)
(PIN remaining authentication times: N/A)

Note:
Entering the wrong PIN code 3 times will lock SIM card.

APN Settings

☒ Obtain APN automatically
☐ Use the following Access Point Name

APN :

Note:
Must insert SIMCARD before power on the device.
Any changes will take 10-15 seconds after apply.

Apply Cancel

See your User's Guide for how to use the rest of the Web Configurator screens. You will need to refer to the section on how to setup the **Broadband** connection if the **INET LED** (light) remains off.

Viewing Certifications

Go to <http://www.zyxel.com> to view this product's documentation and certifications.

- a) Network standby power consumption < 12W and,
- b) Off mode power consumption < 0.5W

EU Importer: ZyXEL Communications A/S Generatorvej 8D, 2860 Søborg, Denmark | <http://www.zyxel.dk>
US Importer: ZyXEL Communications, Inc | 1130 North Miller Street Anaheim, CA 92806-2001 | <http://www.us.zyxel.com>

Declaration of Conformity

We herewith declare that this declaration is issued under our sole responsibility :

Product : LTE Multi-WAN Small Business Gateway
Model : SBG3600-N000

MANUFACTURED BY AND TCF FILE LOCATED AT :

Company : ZyXEL Communications Corporation
Address : 1.No. 2, Gongye E. 9th Road, Hsinchu Science Park, Hsinchu, Taiwan, R.O.C.
2.No. 6, Innovation Road II, Hsinchu Science Park, Hsinchu, Taiwan, R.O.C.
3. Generatorvej 8D, 2860 Søborg, Denmark

complies with essential requirements of the following EU harmonization legislation and in conformity with the following presumption of conformity :

Essential requirements	Presumption of conformity
Directive 2006/95/EC (LVD)	EN 60950-1:2006+A11:2009+A1:2010+A12:2011
Directive 2004/108/EC (EMC)	EN 55022:2010+AC:2011 EN 55024:2010 EN 61000-3-2:2006+A1:2009+A2:2009 EN 61000-3-3:2013 EN 301 489-1 V1.9.2 EN 301 489-17 V2.2.1 EN 301 489-24 V1.5.1
Directive 1999/5/EC (R&TTE)	EN 301 908-1 V 6.2.1 EN 301 908-13 V 6.2.1 EN 300 328 V 1.8.1
Directive 2011/65/EU (RoHS)	EN 50581:2012
Directive 2009/125/EC (ErP)	EN 50564:2011 EN 50563:2011
Recommendation 1999/519/EC (EMF)	EN 62311:2008 EN 50385:2002

ZyXEL Communications Corporation

2015-04-14

Date of issue


Richard Hsu / Senior Manager
Quality Management Division

ZyXEL



This products has been designed for 2.4 GHz networks throughout the EC region and Switzerland, with restrictions in France! <http://www.zyxel.com>

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