LUXUL

Luxul Xen™

Quick Install Guide
XWR-600
Dual-Band Wireless 600N Router

ROUTER

Use the XWR-600 to:

▸ Provide an Affordable Concurrent Dual-Band Wi-Fi Network

▸ Combine High Performance Gigabit and 802.11n Wireless Functionality

▸ Minimize Wireless Interference and Maximize Data Rates

▸ Create a Secure Guest Network

Quick Install Guide

Model Number: XWR-600
Dual-Band Wireless 600N Router

FCC ID: W59XWR600
IC: 8584A-XWR600

DOCUMENT CONVENTIONS

These graphical alerts are used in this document to indicate notable situations:

NOTE: Tips, hints, or special requirements that you should take note of.

CAUTION: Care is required. Disregarding a caution can result in data loss or equipment malfunction.

WARNING!: Indicates a condition or procedure that could result in personal injury or equipment damage.

FCC COMPLIANCE

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.

CONTACT LUXUL

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PACKAGE CONTENTS

The following items should be included in the box:

- ▸ XWR-600 Dual-Band Wireless 600N Router
- ▸ 2 Dual Band RPSMA Male Antennas
- ▸ Ethernet Cable
- ▸ Power Adaptor
- ▸ Quick Installation Guide

NOTE: If any of the listed items are missing or damaged, please contact the reseller from whom you purchased for return/replacement.

HARDWARE DESCRIPTION

XWR-600 LED Indicators

Indicator	Name	Status	Function
↻	WPS LED	ON	Indicates the XWR-600 is ready for WPS pairing.
5GHz	5GHz	ON	Indicates a 5GHz wireless network is broadcasting.
2.4GHz	2.4GHz	ON	Indicates a 2.4GHz network is broadcasting.
1·2·3·4	1-4 LED	ON	Indicates a device is connected to the Ethernet port number.
		FLASHING	indicates data packets are being transmitted to the connected device.
☁	Internet LED	ON	Indicates the XWR-600 is connected to the ISP.
		FLASHING	Indicates data packets are being transmitted
⟜	USB LED	ON	Indicates a USB enabled device is connected and configured.
⏻	Power LED	ON	ON indicates power is applied to the XWR-600.
		OFF	Indicates power is not applied to the XWR-600.

Rear Panel
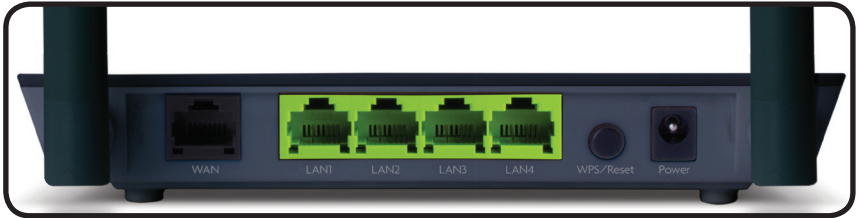
XWR-600 Rear Panel View

▸ **Antenna Ports:** 2 RPSMA female antenna ports to connect the included antennas

▸ **Power Input:** Power adapter included

> ✅ **NOTE:** To hard reboot the router, remove the power adapter. Wait 10 seconds and re-apply power.

▸ **WAN Port:** 1 Black RJ-45 Ethernet Port for Internet connection

▸ **LAN 1 - 4 Ports:** 4 Green RJ-45 Ethernet Ports for connecting to the local network

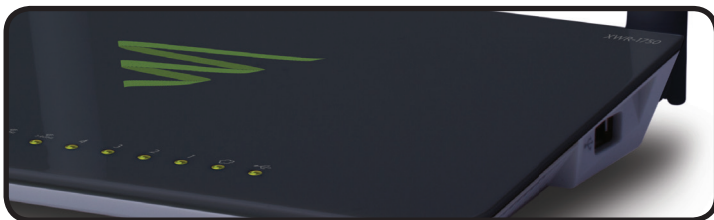> ✅ **NOTE:** It is recommended that a Luxul switch be used in conjunction with the XWR-600 to increase number of local ports available.

▸ **WPS/Reset Button:** Used to configure WPS or restore factory default settings

> ⚠ **CAUTION:** Holding the WPS button longer than 10 seconds will result in a factory reset

Side Panel

XWR-600 Side Panel View

▸ **USB Port:** 1 USB 2.0 ports for connecting USB based printers and hard drives

PREPARING FOR INSTALLATION

System Requirements

▸ Computer supporting TCP/IP and equipped with a Web browser. Supported Web browser versions include I.E. 9.0, Firefox 3.6, Safari 5.0, Chrome 6.0, Opera 10.6 and up. The Web browser is used to configure the XWR-600.

▸ Power must be AC 100-240V~ 1.0A 50/60Hz.

XWR-600 INSTALLATION

Desktop Installation

For use as a desktop device, position the XWR-600 on a desk or other horizontal surface with adequate room around the XWR-600 for ventilation.

Wall Installation

The XWR-600 Is keyholed to allow installation on a wall or ceiling. Use the Mounting Pattern (Page 8-9) for keyhole alignment.

Hardware Setup

▸ **Attach Antennas:** Connect the included Dual Band Antennas to both antenna ports.

> **NOTE:** Both antennas should be installed prior to powering up the XWR-600 and are required for optimal performance.

▸ **WAN Connection:** Connect the Ethernet cable from the modem/router equipment provided by your Internet Service Provider (ISP) to the black WAN port of the XWR-600.

▸ **AC Power:** Connect the included AC Adapter to the XWR-600 first and then to the AC outlet.

CONFIGURATION

Default IP Address

The XWR-600 default IP address is 192.168.0.1. This address can be changed. However, for hassle free installation of other XenConnect™ plug and play Luxul devices, it is recommended that the default IP value be maintained.

Parameter:	Default Value
Default IP address:	192.168.0.1
Default user name:	admin
Default password:	admin

Connect a Client Device

Use a computer or mobile device to connect via Ethernet or wireless to the XWR-600. The DHCP server on the XWR-600 is configured by default. If your client device is set to obtain an address automatically, no further configuration is required.

▸ **Connecting a Wireless Client Device:** Connect the client device to one of the XWR-600 default wireless networks (**LuxulXen600_24** or **LuxulXen600_5X**). Both Wireless networks will run in Open Security mode. A passphrase is not required until Wireless Security is configured.

▸ **Connecting an Ethernet Device:** Use Ethernet cable to connect your computer or device to one of the XWR-600 LAN ports.

Login

Login to the router with the following steps:

1. Open a Web browser, and enter 192.168.0.1. The router login screen will appear.

2. Enter the user name and password (default user name and default password are both set as "admin"), and then click "OK" to login to the router configuration interface.

> ✅ **NOTE:** Only devices that support 5GHz will see LuxulXen600_5X wireless network.

WPS CONFIGURATION/RESET BUTTON

Used to configure WPS (Wi-Fi Protected Setup) or restore factory default settings

▷ **To configure WPS**, press and hold the WPS/Reset button until the WPS LED turns on (typically about 5 seconds). The XWR-600 is now in WPS pairing mode. Follow the pairing instructions for your client device and enter the XWR-600 WPS pin number **(12345678)** when prompted.

⚠ **CAUTION:** Holding the WPS button longer than 10 seconds will result in a factory reset

⚠ **CAUTION:** For optimal security, it is recommended to disable WPS after your client devices have been configured.

▷ **To reset to factory defaults**, press and hold the WPS/Reset button until the System LED stops flashing (approximatly 20 seconds). A factory reset will take one minute or more to complete. A successful factory reset is indicated when all of the Port LEDs flash once. When the System LED starts flashing again the unit is ready.

⚠ **CAUTION:** Resetting the XWR-600 to factory defaults will remove all custom settings.

✅ **NOTE:** To hard reboot the router, remove the power adapter. Wait 10 seconds and re-apply power.

ADVANCED SETTINGS

For login and advanced settings information go to luxul.com

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WARNINGS AND SAFETY INFORMATION

▶ Verify that the electrical circuits have appropriate grounding and overload protection.

▶ Attach only approved power cords to the device.

▶ Verify there is adequate ventilation around the device, and that ambient temperatures meet equipment operation specifications.

▶ The XWR-600 is designed for indoor use only. DO NOT place this outdoors.

▶ DO NOT install in or near hot or humid places, such as a kitchen or bathroom. Take care to minimize exposure to excessive heat or moisture.

▶ Small parts and plastic bags used for packaging may be harmful to small children. KEEP All ACCESSORIES OUT OF THE REACH OF CHILDREN!

▶ The XWR-600 may become hot when in use for extended time periods. This is normal and is not a malfunction. DO NOT install where it will be exposed to paper, cloth or other flammable materials.

REGULATORY COMPLIANCE

The device complies with internationally recognized standards covering human exposure to electromagnetic fields from radio devices. This equipment also complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

Unauthorized antennas, modifications, or attachments could cause damage and may violate regulatory approvals. Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate the equipment.

The equipment version marketed in the U.S. is restricted to usage of channels 1-11 only.

Health and Safety Recommendations

Warnings for the use of Wireless Devices: Please observe all warning notices with regard to the usage of wireless devices

Potentially Hazardous Atmospheres: You are reminded of the need to observe restrictions on the use of radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders).

Safety in Hospitals: Wireless devices transmit radio frequency energy and may affect medical electrical equipment. When installed adjacent to other equipment, it is advised to verify that the adjacent equipment is not adversely affected.

RF Exposure Guidelines

Safety Information: The device complies with internationally recognized standards covering human exposure to electromagnetic fields from radio devices.

Warning: Exposure to Radio Frequency (RF) Radiation:

The radiated output of this device is below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact during normal operation is minimized.

▸ The end user must avoid any extended human RF exposure directly in front of the device, up to a distance of 20cm, when unit is on.

▸ When servicing the equipment and selecting a location for the antennas, it is important to note that a minimum distance of 20cm is required between personnel and the device or antenna to comply with the radio frequency exposure limit.

▸ The antenna used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

The following safety precautions should be observed:

▸ Do not touch or move the antenna while the unit is transmitting or receiving.

▸ Do not hold any component containing the radio such that the antenna is very close or touching any exposed parts of the body, especially the face or eyes, while transmitting.

▸ Do not operate the radio or attempt to transmit data unless the antenna is connected; this behavior may cause damage to the radio.

FCC Statement—Wireless FCC 2.4GHz & 5GHz 802.11abgn

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

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.

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

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.

> ✅ **NOTE:** (1)The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.(2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable

Industry Canada (RSS-Gen Issue 2)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2)this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareilsradio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1)l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

CAN ICES-03(B)/NMB-3(B)