

1. Product Overview

The Nokia ONT XS-2426X-A is the solution for home networking that is delivered by 10 Gigabit symmetrical Passive Optical Network (XGS-PON). The device has built-in concurrent dual-band Wi-Fi® 802.11 b/g/n/ax and 802.11a/n/ac/ax networking with triple play capabilities that include voice, video and data. The XS-2426X-A supports Wi-Fi EasyMesh™, to create a whole home mesh network. This coverage can be expanded at any time by installing additional Wi-Fi EasyMesh-capable beacons to ensure seamless roaming throughout the home. The XS-2426X-A includes the Nokia WiFi Mesh Middleware which ensures the best possible Wi-Fi performance. The end-user experience is enhanced by the service provider's Wi-Fi management capabilities in the cloud and intuitive home user support using the Nokia WiFi mobile app. The XS-2426X-A also supports application containers, that allow introducing new services, from cybersecurity to entertainment to productivity.



Figure 1 Nokia ONT XS-2426X-A front view



Figure 2 Nokia ONT XS-2426X-A back view

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A. Technical Specifications

Physical specifications:

- Height: 226 mm (8.9 in)
- Width: 85 mm (3.3 in)
- Depth: 175 mm (6.9 in)
- Weight: 1.38 kg (3.0 lb)

Installation: Desk mountable or wall mountable with bracket

Power consumption:

- Standby mode: 11.6 W
- Typical mode: 15.4 W

B. Manufacturer Information

For Products Purchased in EU/EAA Countries

The products are manufactured and imported by *Nokia Solutions and Networks Oy. Karakaari 7, 02160 Espoo, Finland.*

Nokia is a registered trademark of Nokia Corporation.

For Products Purchased in the United States

The products are imported by Nokia of America Corporation.

- Offices: <https://www.nokia.com/contact-us/worldwide-offices/north-america/>
- Support: <https://www.nokia.com/support/>
- Other contacts: <https://www.nokia.com/contact-us/>

Please contact your Internet Services Provider in case of questions on the product.

2. Safety Guidelines

ALWAYS READ THE PRODUCT GUIDE BEFORE SET UP OR USE OF THE PRODUCT. IT IS YOUR RESPONSIBILITY TO FAMILIARIZE YOURSELF WITH THE PRODUCT GUIDE AND WARNINGS, AND TO USE A PRODUCT PROPERLY. CONTACT YOUR INTERNET SERVICES PROVIDER FOR FURTHER QUESTIONS.

Warning - Risk of electric shock or fire

Connect the Product power adaptor or cord to the right supply voltage (for example, 230V in Europe, Australia, South Africa and 120V in US).

The socket-outlet shall be easily accessible.

Pay attention to the power load of the electrical outlet and possible extension cord. An overburdened power outlet or damaged cords and plugs may cause electric shock or fire. Check the power cords regularly. If you find any damage, replace the cord immediately.

Do not connect the plug into an extension cord, receptacle, or other outlet unless the plug can be fully inserted with no part of the blades exposed.

Leave adequate space for heat dissipation to avoid any damage caused by overheating the Product. Do not cover the Product or its ventilation holes. Blocking the ventilation holes may cause fire.

Use the power adapter provided with your Product and do not fasten the power cable to building surfaces. Ensure the cable can move freely. Do not place heavy objects on the cable.

Do not use the Product outside, and make sure all the connections are indoors.

Do not install, use, or service this Product during a thunderstorm. There is a remote risk of electric shock from lightning.

Caution - Potential equipment damage

Follow these recommendations to protect yourself and the Product from harm:

- Do not look directly at the optical port without protection.
- Do not insert any sharp object into the openings of a Product.
- Do not put the Product near a heat source. Avoid placing the Product in direct sunlight.
- Do not put the Product in damp or wet locations; for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool. Do not spill any liquid on the Product.
- Do not touch the Product or its power adapter or cord with wet hands.

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- Do not place the Product on an unstable surface or support.
- Do not place heavy objects on top of the Products.
- Do not use liquid or aerosol cleaners; unplug the Product and use a soft, dry cloth for cleaning.
- When connecting a PC or other electronic device to a Product, make sure you use the right cables and connect the device to the right port of the Product. Incorrect connections may damage the device and/or the Product.
- Do not open or try to open the Product. Opening or removing covers can expose you to dangerous high voltage points or other risks.

It is recommended that users and other individuals maintain a distance of at least 10 cm between themselves and the Product to avoid exposure. The Product contains components that emit an electromagnetic field and could interfere with pacemakers or other electronic medical devices. If you have a pacemaker or other implantable or personal medical device, please consult your physician or medical device manufacturer about the required minimum safe distance between the Product and your medical device.

Keep your product and accessories out of reach of pets. They could damage it and cause injury or electrocution.

If the Product malfunctions or fails to perform as expected, stop using it immediately.

The product is expected to operate at a temperature of -5 to 45 degrees Celsius for a relative humidity between 10% and 90%.

3. Install the ONT

The ONT is normally installed by a professional installer.

1. Plug the power cable to the ONT into power input jack.
2. Plug the power socket to the wall socket.
3. Remove the protective cap on the optical port of the ONT.
4. Remove the protective cap from the optical fiber.
5. Plug the optical fiber to the optical port of the ONT.
6. Connect the ONT to the home router via an Ethernet cable into the Ethernet port
7. Push the power button to be "ON". ("ON" = recessed stated, "OFF" = non-recessed state)

4. LED description

The following table describes the LEDs of the device:

LED indicator	LED color and behavior	LED behavior description
Power	Green solid	Power on out of mains supply, no battery alarms.
Power	Green slow flashing	Software update.
Power	Red flashing	No battery, battery alarm.
Power	Red solid	Light failed on startup (for example corrupt flash), or self test failed on startup, or self test failed during regular operation or when executed over OMCI
Power	Amber solid	Device operating in battery.
Power	Amber slow flashing	Low battery.
Power	Amber fast flashing	Loopback detected.
Power	Off	No power.
PON	Green solid	Full communication between OLT and ONT (O5 with OMCI messages are downloaded).
PON	Green flashing	ONT is attempting to range with OLT (O2-O4, O6 (not O5)).
PON	Red solid	No fiber is connected or no received power is detected.
PON	Off	ONT is under initialization phase.
INTERNET	Green solid	HSI WAN is connected: a) the device has an IP address assigned from IPCP, DHCP, or static; b) the session is dropped due to idle timeout but the PON link is still present, or transmit and receive traffic is ongoing.
INTERNET	Green flashing	PPPoE or DHCP connection is in progress.

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LED indicator	LED color and behavior	LED behavior description
INTERNET	Off	HSI WAN is not connected: a) there is no physical interface connection; b) the session has been dropped for reasons other than idle timeout.
TEL	Green solid	Phone is off hook and VoIP service is build up.
TEL	Green flashing	Phone is in 'call in' or 'talking' condition.
TEL	Red solid	VoIP service is out of service as POTS registration fails.
TEL	Off	Either all phones are on-hook with POTS registered or the VoIP service is not established due to some reason.
WPS	Green solid	WiFi protected setup link is up (negotiation and auto-configuration successful).
WPS	Green flashing	WiFi protected setup link activity (negotiation and auto-configuration ongoing).
WPS	Red solid	WiFi protected setup processing exception.
WPS	Red fast flashing 4 hz	WPS session overlap detected.
WPS	Off	WiFi protected setup link down or no link connected (negotiation has not started or has failed).
WLAN	Green solid	WiFi enabled for at least one radio frequency (RF).
WLAN	Off	WLAN is down.
LAN/RJ-45 at the back (Executed on the RJ-45 connectors)	Green solid	LAN link is active.
LAN/RJ-45 at the back (Executed on the RJ-45 connectors)	Off	LAN link is OFF or has LOS (line of sight) transmission issue.
USB	Green solid	There is traffic activity on at least one device connected to the USB port.
USB	Green flashing	No device is connected to the USB port.
USB	Off	At least one device is connected to the USB port.

5. Connecting devices

The ONT supports the following connections:

- Ethernet
- WiFi
- Telephone

Connecting Ethernet

The product has three 1G Ethernet ports (RJ-45 connectors) and one 10G Ethernet port as visible in Figure 2. You make Ethernet connections to the product by connecting the Ethernet cable(s) to the appropriate Ethernet port(s) of the product.

Connecting WiFi

The product supports connection of WiFi devices by using the SSID and WiFi key or by using WPS.

Using the SSID and WiFi key:

You can connect devices that are going to use WiFi by using the SSID and WiFi key shown on the label on the back of the product.

Using WPS:

If you are connecting WiFi devices that support WPS, press the WPS button as visible in Figure 2 on the back of the product to start the WiFi protected setup process.

Connecting Telephone

You can connect a landline device that has a cable with an RJ-11 connector to the Telephone port on the back of the product as visible in Figure 2.

6. Accessing the webGUI

The product supports a WebGUI, which can be used for configuration, maintenance, and troubleshooting. You can collect device status through the WebGUI for information on network connectivity. You can configure the product using the WebGUI available on a device such as PC, tablet, or laptop. The device must have an Ethernet LAN connection or a WiFi connection with the product. The WebGUI also displays useful information about the product.

To access WebGUI, you need to do the following:

- Establish a connection between your device (such as PC, tablet, or laptop) from which you will access the WebGUI on the product.
- Log into WebGUI when needed to view and configure parameters; you will need to enter the username and password that are provided on the product label on the back of product to log into WebGUI.

Establishing a connection and logging in to the webGUI

1. Ensure the Local Area Connection setting on your device is configured as "obtain an IP address automatically".

Note: The device must be powered up.

2. Do one of the following as described in Connecting devices:

- a. Connect your device to the product through one of the Ethernet ports
- b. Establish a WiFi connection between your device and the product

3. On your device, open a web browser, and enter the IP address that is provided on the product label at the back of the product, for example: <http://192.168.1.254> (default) or <https://192.168.1.254>

Once the connection is established between your device and the product, the left side of your device's screen provides the WebGUI main menu, and the right side provides overview information.

4. To log in, click Sign in or click on any of the menu items on the left side of the screen. The log in window appears and you are prompted to log in. Type the username and password in the respective fields and then click Login. The username and password are provided on the product label on the back of the product.

Note: After predefined consecutive unsuccessful login attempts, you will be locked out for a specific amount of time.

You should now see the Overview screen which provides information about the product.

To improve security, it is recommended that you change the default password. You can do this by going to the Maintenance/Change screen

7. WebGUI Overview screen

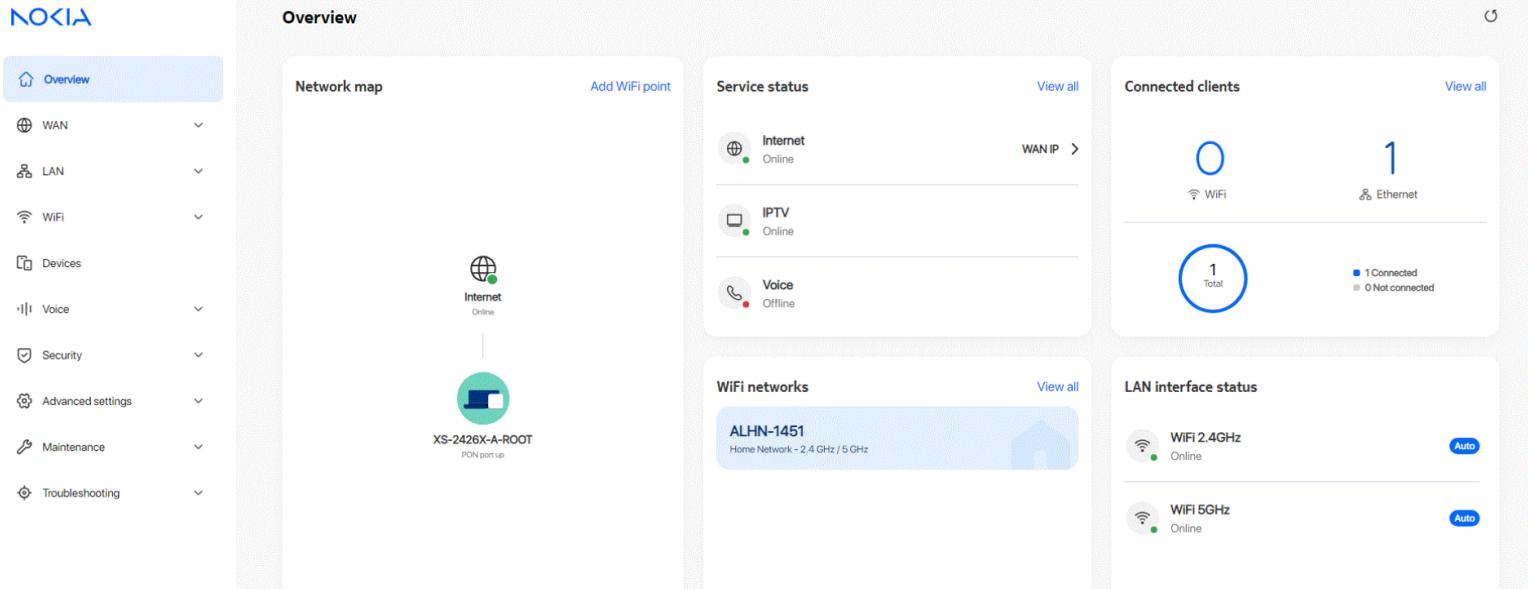
The Overview screen contains the following information to know the status of the device.

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Nokia ONT XS-2426X-A Quick Reference Guide



Network map

Displays information about the status of the network and connection to the internet. The status of the internet connection is defined by the presence of an IP address on the internet service. Up is indicated with green and Down is indicated with red.

Service status

Displays the active status of the configured services.

- Internet: shows the status of the internet service (online/offline)
- IPTV: Shows the status of the IPTV service if configured by the service provider (online/offline)
- Voice: service state is defined by the registration status of the voice service (online/offline)

WiFi networks

Displays the active WiFi networks, regardless of whether a device is wirelessly connected to the product. You may view WiFi connectivity information such as the network connection name.

Click on the WiFi network to change its configuration.

Click View all to view the available WiFi networks.

Connected clients

The connected devices field of the Overview screen shows the following:

- WiFi: the number of devices connected to the WiFi network
- Ethernet: the number of devices connected via Ethernet
- Total: provides an overview of the total number of connected devices

Click View all to view available clients.

LAN interface status

The LAN interface status field of the Overview screen shows the following:

- WiFi 2.4 GHz: Indicates whether 2.4 GHz band is enabled or disabled and displays broadcast Channel and Channel bandwidth. (Auto represents that an available channel is automatically selected)
- WiFi 5 GHz: Indicates whether 5 GHz band is enabled or disabled and displays broadcast Channel and Channel bandwidth. (Auto represents that an available channel is automatically selected)
- Ethernet port: Indicates whether a device is connected through an Ethernet connection, along with the transfer speed and duplex mode

8. EU Declaration of Conformity

Hereby, Nokia Solutions and Networks Oy declares that the Product is in compliance with Radio Equipment Directive 2014/53/EU; Low Voltage Directive 2014/35/EU; EMC Directive 2014/30/EU, Directive RoHS 2011/65/EU and 2015/863/EU, Directive Eco-design 2009/125/EC, and European Accessibility Act Directive 2019/882/EU. The full text of the EU declaration of conformity, as well as additional compliance information, is available at www.nokia.com/notices/declaration-of-conformity/.

Products are for indoor use only.

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following tables provide information on the frequency bands used and the maximum radio frequency transmit power of the Products for sale in the EU and other countries of sale:

Radio Frequency	EIRP
2400 to 2483.5 MHz	100 mW
5150 to 5350 MHz	200 mW
5470 to 5725 MHz	1000 mW

Specific precautions for EMC Warning

The Products are compliant with Class B of EN 55032. In a residential environment, this equipment may cause radio interference. The Products are tested to the requirements of EN 55032 (Emissions) and EN 55035 (immunity). There are no specific precautions which must be taken in order to comply with the requirements of Directive 2014/30/EU Essential Requirements in Section 1 of Annex I. In addition, the Products are further tested to ensure spurious emissions are within the specified limits, as well as meeting the requirements for adaptivity, which mitigates against problems caused by co-location with other wireless products. The Products are not subject to the requirements in Section 2 of Annex I of Directive 2014/30/EU for fixed installations.

End of Life Collection and Treatment



In the European Union and European Economic Area, this label indicates that this product should not be disposed of with household waste. It should be deposited in an appropriate facility to enable recovery and recycling.



The Product is marked with this symbol, which is known as the WEEE mark. WEEE stands for Waste Electronics and Electrical Equipment. Electronic products bearing or referencing the WEEE mark shown above, when put on the market within the European Union (EU) and European Economic Area (EEA), shall be collected and treated at the end of their useful life, in compliance with applicable EU and local legislation. They shall not be disposed of as part of unsorted municipal waste. Due to materials that may be contained in the Product, such as heavy metals or batteries, the environment and human health may be negatively impacted as a result of inappropriate disposal.

At the end of their life, the Products are subject to the applicable local legislations that implement the European Directive 2012/19/EU on WEEE. There can be different requirements for collection and treatment in different member states of the European Union.

In compliance with legal requirements and contractual agreements, where applicable, Nokia will offer to provide for the collection and treatment of Products bearing the logo above at the end of their useful life, or Products displaced by Nokia equipment offers. The equipment can be disposed at electronic waste collection points or to stores that sell electronics.



For information regarding take-back of equipment by Nokia, or for more information regarding the requirements for recycling/disposal of the Product, contact your service provider. Regulatory compliance information, including EU Declaration of Conformity, can be found at www.nokia.com/notices/declaration-of-conformity/.

9. FCC Declaration of Conformity

 This device complies with part 15 of the U.S. FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) these devices 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 or more 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.

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- Consult the dealer or an experienced radio/TV technician for help.

No Unauthorized Modifications:

Do not make any changes or modifications to the Product without the prior express written approval of Nokia. Any changes or modifications made without express written approval could void the user's authority to operate the device.

FCC Guidelines for Human Exposure

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

FCC Information to User

The Product does not contain any user serviceable components and is to be used with approved antennas only. Any product changes or modifications will invalidate all applicable regulatory certifications and approvals.

The Product and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.

10. For Products Purchased in Canada

This device complies with Innovation, Science and Economic Development Canada's licence-exempt RSSs. 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'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectriques ubi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution

To satisfy ISED RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

Les antennes installées doivent être situées de façon à ce que la population ne puisse y être exposée à une distance de moins de 20 cm. Installer les antennes de façon à ce que le personnel ne puisse s'approcher à 20 cm ou moins de la position centrale de l'antenne.

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