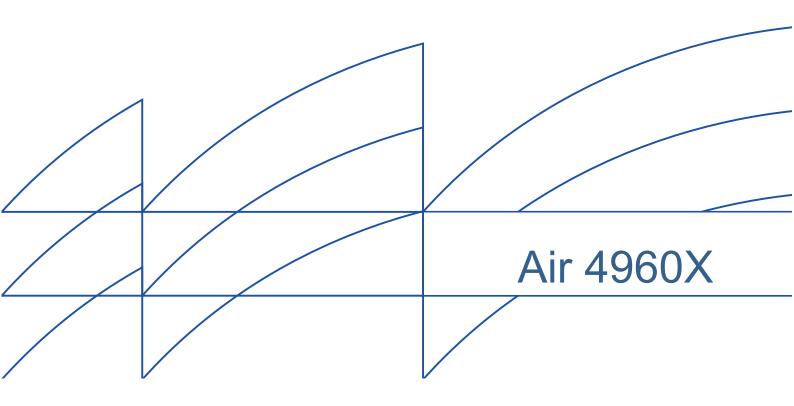


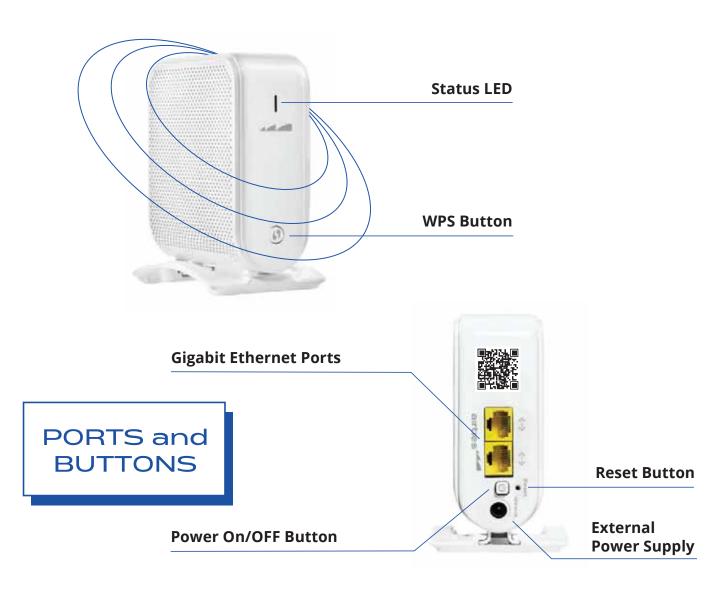
Wi-Fi 6 Smart Mesh Extender

User Manual





Wi-Fi 6 Smart Mesh Extender





Please remove the protective plastic on the products before installation.

INSTALLATION

To install the Airties Wireless devices, please download "Airties Vision" application on your mobile device by scanning this QR code.

Please follow the instructions in the mobile application to complete your setup.









TIPS FOR BEST PERFORMANCE

- Keep devices away from:
 - Potential sources of electrical interference. Equipment that may potentially cause interference include home security systems, microwaves and consumer electronic devices.
 - Large metal surfaces and objects.
 - Sources and areas of heat such as ovens and sun rooms as well as direct sun light.
- Please make sure to remove the protective plastic on the device before first use.

- Please use the device in upright position. The openings are provided for ventilation, do not block or cover openings.
- Your device is designed to work indoors and under room temperature conditions only.
 Avoid placing the device to very cold, very hot, very humid or very dry locations inside your home.
- To change advanced settings on your device, you can access web UI with the credentials below:

Username: adminPassword: Admin123



RETURNING TO FACTORY SETTINGS



To return the device to factory settings, press down on the reset button (in the small opening on the back shown above) for 5 seconds and release. A metal paperclip (with an extended tip) or strong toothpick are typically good choices for this task. When the reset process is triggered, the LED in the front will "blink rapidly" and the device will reboot to factory settings.

PRODUCT NOTICES

Operational modes:

2.4 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40),

GHz: 802.11ax (HE20), 802.11ax (HE40)

____ 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20),

5 802.11ac (VHT40), 802.11ac (VHT80), 802.11ac (VHT160),

GHz: 802.11ax (HE20), 802.11ax (HE40), 802.11ax (HE80),

802.11ax (HE160)

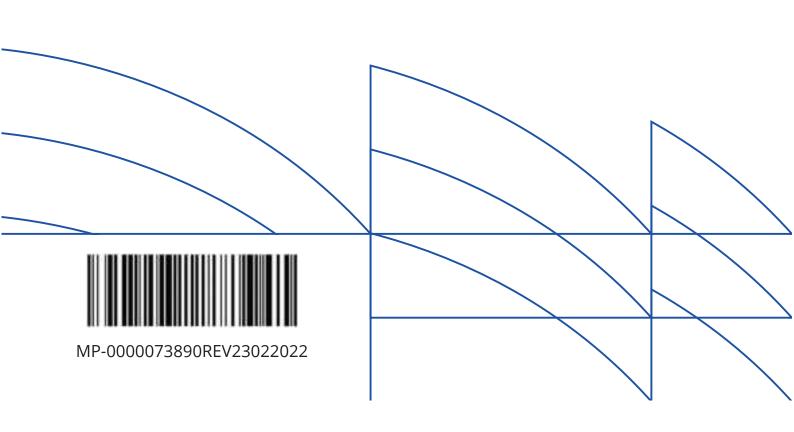


TROUBLESHOOTING

Condition	LED Color	LED Behavior	Timing
Power OFF	OFF	-	
Power ON, booting	White	Blinking	
Wireless network healthy	Green	Blinking	50 milliseconds OFF 5 seconds ON
Device configured as single wireless access point	Green	Solid	
Unconfigured mesh device	Blue	Blinking	4 seconds OFF 4 seconds ON
Weak connection to the wireless mesh network	Red	Solid	
Cannot connect to the wireless mesh network	Red	Blinking	1 second OFF 1 second ON
Software upgrade	Blue	Blinking	1/2 second OFF 1/2 second ON



Explanation	Recommended Action(s)
Device is turned off.	Make sure the power button on the back is pressed and power supply unit is connected to the device.
	No action required. If the device was just powered on, please wait for at least 2 minutes for the device to boot up.
LED is steady green with a short blink every 5 seconds.	No action required.
Device is connected to the router/ gateway with an ethernet cable and acts as a wireless access point. No other mesh devices are configured in the network.	No action required, more mesh devices can be added to the wireless mesh network if needed.
Device is not configured and connected to the wireless mesh network.	Configure the device using Airties Vision app.
	Bring device closer to another device in the wireless mesh network.
Device is part of wireless mesh network but unable to find any of its mesh partners.	Make sure other device(s) that are part of the wireless mesh network are powered on and close enough to connect.
Device is retrieving the latest software.	Wait for the upgrade to complete. Device will automatically start with the latest software.



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REVISION TABLE

Change Point	Ref. PN.	PN.	Part Description	Date	Change Notes	Author
		MP-0000072762	QIG, 4960R, Generic, EN, Color, Single, R0, v0	16.12.2020	Initial Release	MB
	MP-0000072762	MP-0000073984	QIG, 4960R, Generic, EN, Color, Single, R1, v0	24.02.2022	Changed Air 4950XR with Air 4950R and changed verdans fort with open sans	MB
	MP-0000073984	MP-0000074097	QIG, 4960R, Generic, EN, Color, Single, R2, v0	15.04.2022	changed Power icon with On/Off text and changed 12V_JA with 12/14	MB

Printing Colors







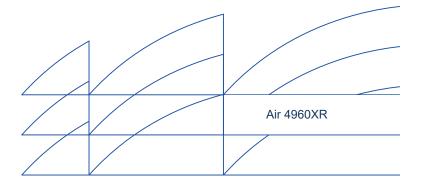






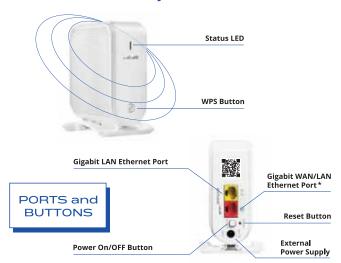
Wi-Fi 6 Smart Mesh System

User Manual





Wi-Fi 6 Smart Mesh System



 \star Ethernet (Internet) cable from vour Internet Service Provider or modem should be plugged into WAN/LAN ethernet port of $\,$ Air 4960XR

02



Please remove the protective plastic on the products before installation.

INSTALLATION

To install the Airties Wireless devices, please download "Airties Vision" application on your mobile device by scanning this QR code.

Please follow the instructions in the mobile application to complete your setup.





TIPS FOR BEST PERFORMANCE

- Keep devices away from:
 - Potential sources of electrical interference. Equipment that may potentially cause interference include home security systems, microwaves and consumer electronic devices.
 - Large metal surfaces and objects.
- Sources and areas of heat such as ovens and sun rooms as well as direct sun light.
- Please make sure to remove the protective plastic on the device before first use.
- Please use the device in upright position. The openings are provided for ventilation, do not block or cover openings.

- Your device is designed to work indoors and under room temperature conditions only. Avoid placing the device to very cold, very hot, very humid or very dry locations inside your home.
- To change advanced settings on your device, you can access web UI with the credentials below by typing http://masternode.local in the address field of your browser and press enter to display the logic window: the login window:
- Username: admin
 Password:default Wi-Fi password on the label under your device.





RETURNING TO FACTORY SETTINGS



To return the device to factory settings, press down on the reset button (in the small opening on the back shown above) for 5 seconds and release. A metal paperclip (with an extended tip) or strong toothpick are typically good choices for this task. When the reset process is triggered, the LED in the front will "blink rapidly" and the device will reboot to factory settings.

PRODUCT NOTICES

• Operational modes:

2.4 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40),

GHz: 802.11ax (HE20), 802.11ax (HE40)

802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80), 802.11ac (VHT160), 802.11ax (HE20), 802.11ax (HE40), 802.11ax (HE80),

GHz:

802.11ax (HE160)

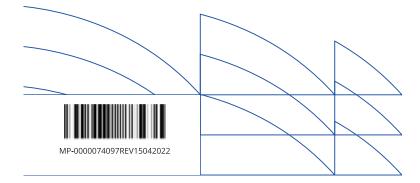


TROUBLESHOOTING

Condition	LED Color	LED Behavior	Timing
Power OFF	OFF	-	
Power ON, booting	White	Blinking	
Wireless network healthy	Green	Blinking	50 milliseconds OFF 5 seconds ON
Device configured as single wireless access point	Green	Solid	
Unconfigured mesh device	Blue	Blinking	4 seconds OFF 4 seconds ON
Weak connection to the wireless mesh network	Red	Solid	
No Internet	Red	Blinking	1/2 second OFF 1/2 second ON
Software upgrade	Blue	Blinking	1/2 second OFF 1/2 second ON



Explanation	Recommended Action(s)
Device is turned off.	Make sure the power button on the back is pressed and power supply unit is connected to the device.
	No action required. If the device was just powered on, please wait for at least 2 minutes for the device to boot up.
LED is steady green with a short blink every 5 seconds.	No action required.
Device is connected to the router/ gateway with an ethernet cable and acts as a wireless access point. No other mesh devices are configured in the network.	No action required, more mesh devices can be added to the wireless mesh network if needed.
Device is not configured and connected to the wireless mesh network.	Configure the device using Airties Vision app.
	Bring device closer to another device in the wireless mesh network.
Your internet connection is down.	Please check WAN/LAN ethernet cable connection between your modem and Air 4960R. If the issue persists, contact your Internet Service Provider.
Device is retrieving the latest software.	Wait for the upgrade to complete. Device will automatically start with the latest software.



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REVISION TABLE

Change Point	Ref. PN.	PN.	Part Description	Date	Change Notes	Author
		MP-0000073891	RSI, 4960X, Generic, EN, Color, Single, R0, v0	14.01.2022	Initial Release	MB



Air 4960X and Air 4960XR / Generic / Regulatory Statements				
(Printed Material Specificati	<u>, · </u>			
Flat dimension	320mm x 120mm			
Dimension after binding	80mm x 30mm			
Pages	One page /Double side			
Printing Color	colour printing			
Page Material	80-100 gr writing paper			
Pages Coating	No coating			
Printing Technique	Offset printing / 100% vegetal ink			
Binding & Folding Process	Accordion type folding			
Output lpi	200 Lpi			
Tolerance	L*W:+1mm/-1mm			
Color Tolerance	ΔE=2 for Pantone			
	ΔE=3 for CMYK			
PART NUMBER	MP-0000073891			

C:0, M:0, Y:0, K:100 Pantone 715C



CUTTING LINE

Pantone 2728C

Attention!
Safety instructions must be FSC compliant,
must contain at least 70% of recyclable fibres. Ideally safety
instructions must be recycled and recyclable.

Safety instructions must be printed with a 100% vegetal ink.



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Requiatory Statements & Safety

Instructions

The following instructions apply to the "Product" which

Model No: Air 4960X, Air 4960XR

document for your reference. Product warranty is void if you do not follow the below guidelines Please read these guidelines carefully and keep the and its accessories (cables, power supply, etc.)

- **WARNING:** Do not use this product near water, for example, in a wet basement or near a swimming pool. 0
- WARNING: Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning. 0
- **WARNING:** The power plug is designed to act as a disconnect device. The indoor power outlet must be easily accessible. This Product is intended for indoor use only.

You must be careful when using the device near personal medical devices, such as pacemakers and hearing aids. All wireless products are sensitive to interference which may affect their performance,

device.

This device is not intended for use by young children. This device contains small parts which are a choking hazard.

RF Exposure: In line with RF exposure guidelines, the device must be used at least 20cm away from the body. Failure to observe these instructions could result in RF exposure exceeding the relevant guidelines.

The product should not be used in areas that present a risk of explosion or an explosive atmosphere. Such environments may include, but are not limited to, petrol environments bats, storage facilities and transportation units for chemicals, and anywhere the air may contain chemicals or large quantities of particles such as grain, dust, or metal.

Installation and Placement

This product must not be installed or placed in a location subject to direct sunlight, direct heat or excessive moisture.

Use only approved accessories and power adapter.

- This product must not be
- Do not connect with incompatible products or accessories,
 - installed or used in areas that are not sufficiently ventilated or that build up excessive heat. Do not cover or block the ventilation slots of the

Product Maintenance and Handling

cleaning or maintenance of the product. power is to unplug the product. Always unplug before any kind of completely turn off the The only way to

Clean with a damp cloth, avoid aerosol and liquid

Handle the product carefully to avoid damage.

https://airties.com/declarations-of-conformity (Please click on the model to view the relevant document)

The full text of the EU Declaration of Conformity (DoC) is

available at the following internet address:

Hereby, Airties declares that this device is in compliance with Directive 2014/53/EU.

This equipment is subject to certain restrictions, 5150 to 5350 MHz frequency range is restricted to indoor use when it is used in the following countries:

Under the following conditions, your Product must be repaired by a qualified electrician:

Belgium (BE), Bulgaria (BG), Czech (CZ), Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain (ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT), Luxembourg (IU), Hungary (HU), Maltz (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK), Finland (FT), Sweden (SE), United Kingdom (Northern Ireland) (UK(NI)), Turkey (TR), Noway (NO), Switzerland (CH), Iceland (IS), Liechtenstein (LI).

• If the product has been exposed to rain or other moisture.

If the product does not

operate as expected when following usage instructions.

voltage points or short cut parts which could result in fire, explosion, or electric shock and permanently damage the product or cause injury.

If the product has been

dropped or is visibly You notice a distinct

damaged.

Do not expose your

change in performance that indicates a need

device or its accessories to extreme temperatures, keep within the range of minimum 0° (32 F) and maximum 40° (104 F) degrees Celsius.

for maintenance,

• If the power adapter or cable is damaged.

Never push objects of any kind into this device through any openings other than the "RESET" hole as they may touch

disassemble and repair the product, its power adapter, or cables.

Do not attempt to

Compliance with 2014/53/EU Radio Equipment Directive (RED): In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency aced and the maximum RF transmit power of Airties wireless products for sale in the EU:

Frequency range (MHz) Channels used Max. Transmit Power (dBm/mW)	OFDM: 19,9dBm (97.7mW) CCK: 17,9dBm (61.7mW)	22,9dBm (195mW)	22,9dBm (195mW) with TPC 19,9dBm (97,7mW) without TPC	29,9dBm (977mW) with TPC 26,9dBm (490mW) without TPC	
Channels used	1-13	36-48	52-64	100-140	
Frequency range (MHz)	2400-2483.5	5150-5250	5250-5350	5470-5725	

TPC = Transmit Power Control, a mechanism that reduces transmitting power to minimize interference for nearby networks.

ENERGY CONSUMPTION INFORMATION in standby mode (According to the Guideline 2009 / 125 / EC of the European Parliament): 5.5W



Recycling of electrical and electronic equipment Product Recycling



and differentiation from other waste.

Hazardous substances contained in electrical and electronic equipment and their improper use may have adverse effects on the environment and human health. Once out of use, this product should be disposed of separately from regular household waste streams. Please follow your local and national guidelines for the responsible disposal of electronic waste when the This symbol indicates the obligation of separate collection of electrical and electronic equipment and differentiation from other waste. product's lifecycle is over

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.

This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to the FCC Rules. 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 according to 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 is found 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 devices
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
 - a dealer or an experienced radio/TV technician for assistance Consult

FCC Caution

The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

2.4GHz operation of this product in the USA/CA firmware limited to channels 1 through 11.

<u>.s</u>

This device is restricted for indoor use.

FCC 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 20 cm between the radiator and your body. This device and it's antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

IC Statement

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Ecronomic Development Canada's licence-exempt RSS(s). Deperation is subject to the following two conditions:

- (2) This device must accept any interference, including interference that may cause undesired operation of the (1) This device may not cause interference. device.
- Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes au (x), RSS (s) exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'opération est soumise aux deux conditions suivantes:
- 75 Cet appareil ne doit pas provoquer d'interférences.
 Cet appareil doit accepter toute interférence, compris les interférences susceptibles de provoquer u fonctionnement indésirable de l'appareil.

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.

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.

For indoor use only.

Pour une utilisation en intérieur uniquement.

IC Radiation Exposure Statement IMPORTANT NOTE

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 22cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non controlé. Cet équipement doit être installé et utilisé avec un minimum de 22cm de distance entre la source de rayonnement et votre corps.

Open Source Software

The Product contains Open Source Software. Detailed information on the applicable licenses and license terms can be found on the device's user interface.

To obtain a copy of said source code, Please contact osrb@airties.com

important information regarding your device can be reached at www.airties.com/sustainability Additional safety, compliance, recycling and other

Third-Party Software or Firmware

The use of software or firmware not supported/provided by Airties products may result in the equipment no longer being compliant with the regulatory requirements.

