LINXC Bridge™

User Guide

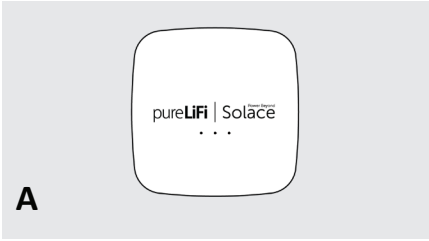


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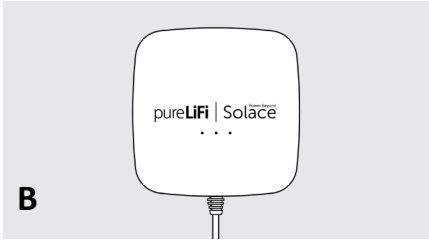
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What's in the Box?

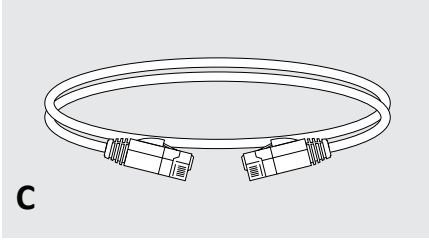
LINXC Bridge



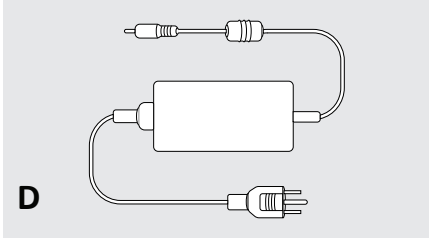
Indoor Unit
This module mounts to the inside of your window and sends and receives data wirelessly to and from the Outdoor Unit. It also powers the Outdoor Unit wirelessly.



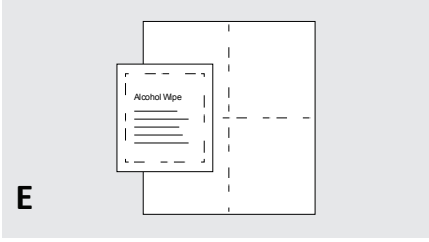
Outdoor Unit
This module mounts to the outside of your window, receives data from the 5G Receiver, and transmits it wirelessly to the Indoor Unit.



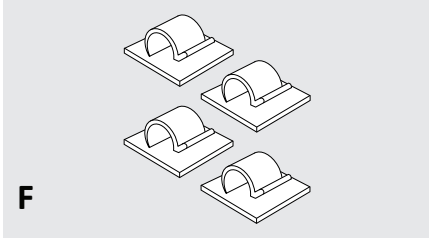
Ethernet Cable
This will connect the Indoor Unit to your router.



Power Supply
This cable supplies power to the Indoor Unit.



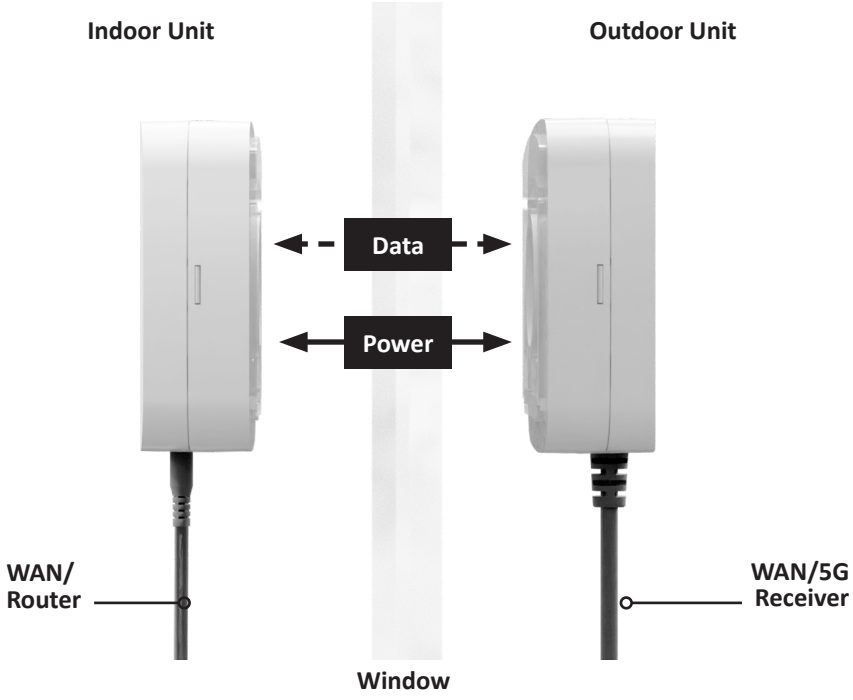
Alcohol Wipe
This will be used to remove any dirt or oils from the window before installation.



Cable Management Clips
These will be used to clip the cables to the wall near the end of the installation.

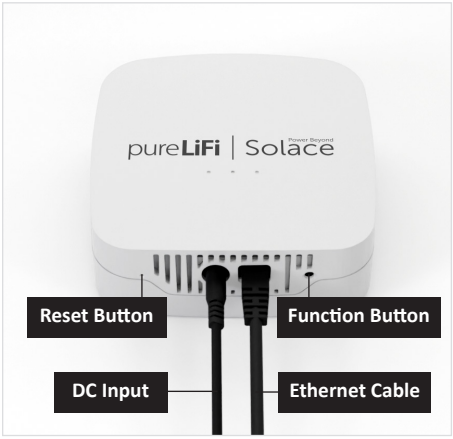
How the LINXC Bridge™ Works

The LINXC Bridge™ is the simplest way to bring your wireless broadband signal from the outside to the inside. It converts the signal from your 5G Receiver into invisible light, passes it through your window, and then converts it back for connection to your local network. The LINXC Bridge™ also safely transfers power wirelessly from indoors to outdoors in order to power both itself and your 5G Receiver.



Getting Familiar With The Bridge

On the bottom side of the Indoor and Outdoor Units, there are a selection of ports and buttons that you will need to familiarize yourself with for this install. This is a great time to take a quick moment to look at the diagrams below.



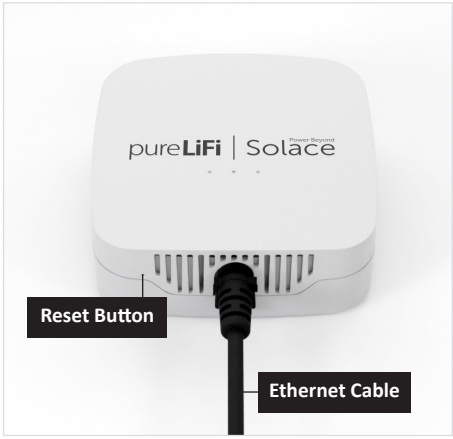
Indoor Unit

Reset Button: This button is used for factory resetting the LINXC Bridge™.

Function Button: A button used to perform certain functions. A list of all available functions can be found on page 10 & 11.

DC Input: The input port for the Power Supply. The other end of the power supply will plug into a powered wall outlet.

Ethernet Cable: The input port for the Ethernet Cable. The other end of this cable plugs into your router.



Outdoor Unit

Reset Button: This button is used for factory resetting the LINXC Bridge™.

Hardwired Ethernet Cable: The outdoor unit has a permanently attached ethernet cable that connects to your 5G Receiver.

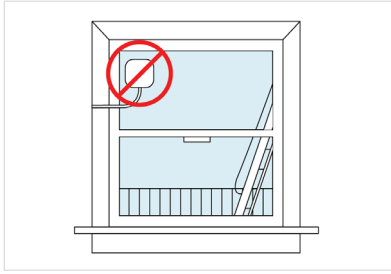
Let’s Get Started!

Installing your new LINXC Bridge™ is very simple, but it’s recommended to read this entire manual first to ensure your installation goes as smoothly as possible.

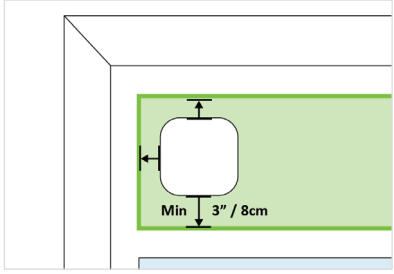
Below are a list of best practices and considerations for installation:

- It’s recommended to keep the Outdoor Unit away from direct streams of water, such as from a garden hose, sprinkler system, or heavy rain.
- Choose a window close to where your 5G Receiver is installed. It should have a nearby power outlet for powering the Indoor Unit, and it shouldn’t be placed on a window designated as a fire escape.
- The Indoor/Outdoor Units should be installed a **minimum of 8cm (3in)** away from the frame of the window to leave ample room for the required cables.
- The units shouldn’t be placed on a window on top of a mesh screen. The units must be mounted directly onto a window’s glass.
- Ideally, the LINXC Bridge™ should be placed on a fixed window. If you’re installing the units on a window that has a moving component, take a look at the illustrations below for the best placement options:

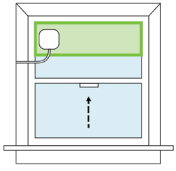
Do not place on a fire escape window



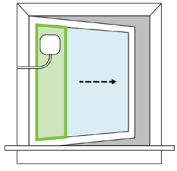
Minimum clearance from window sash



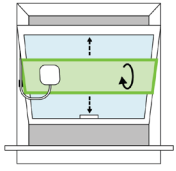
Vertical Sliding



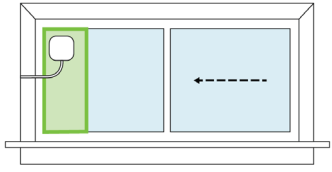
Casement



Rotating



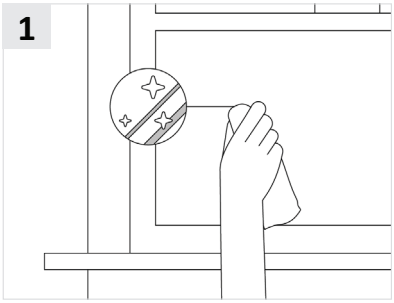
Horizontal Sliding



Putting It All Together

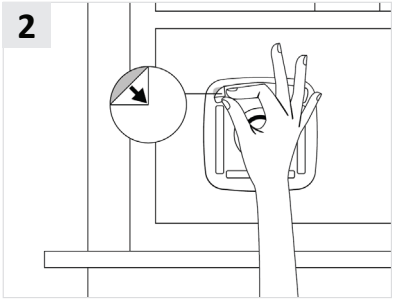
Once you have decided where to put the LINXC Bridge™, it's time to start the install process! This install is very simple and should only take about 5-10 minutes.

Each part of the LINXC Bridge™ that is referenced below includes a letter that you can use to refer back to the "What's in the Box" section on page 1.

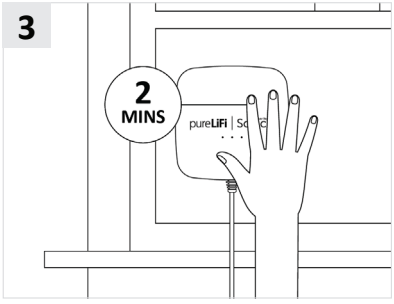


1. To get started, clean the outside window with an *Alcohol Wipe* (E). You only need to clean the portion of the window where you're installing the unit.

> **Heads up!** Window **must be clean and dry** in the area that the unit will be installed. This will ensure the unit is secured to the glass and will not fall off.

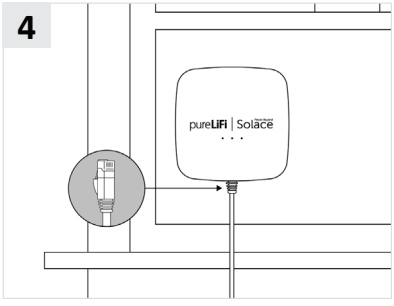


2. Next, remove tape backing from the back of the *Outdoor Unit* (B).



3. Stick the *Outdoor Unit* (B) on the exterior side of the window in the desired location you cleaned and **apply pressure for 2 minutes**.

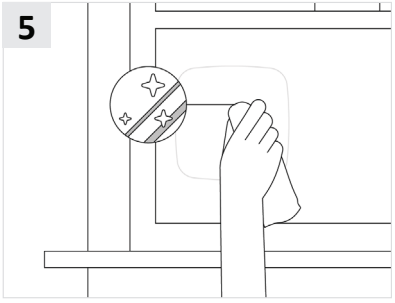
> **Heads up! Ensure the Outdoor Unit (B) is placed a minimum of 8cm (3in)** from the frame of the window and it is oriented correctly with the logos on the front right-side up.



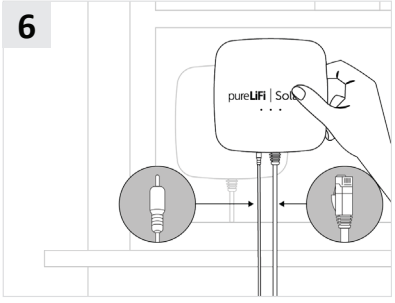
4. Plug the end of the permanently attached ethernet cable from the *Outdoor Unit* (B) into your 5G Receiver.

Putting It All Together (Continued)

5. It's time to install the ***Indoor Unit*** (A) now. Clean the inside of the window with an ***Alcohol Wipe*** (E). Again, you only need to clean the portion of the window where you're installing the unit.



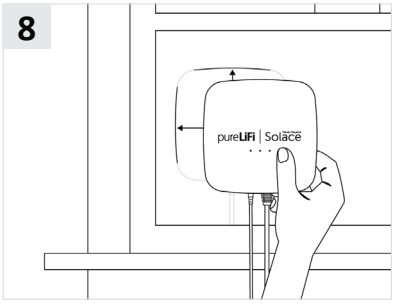
6. Before attaching the ***Indoor Unit*** (A) to the inside of your window, it's a good idea to plug the barrel connector end of the ***Power Supply*** (D) into the bottom of the ***Indoor Unit*** (A). Plug one end of the ***Ethernet Cable*** (C) into the bottom of the ***Indoor Unit*** (A).



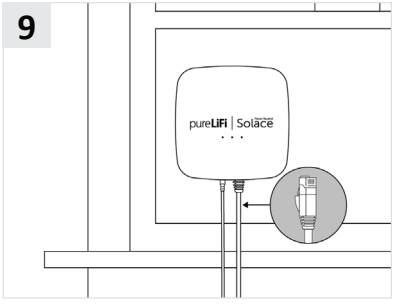
7. Remove the tape backing from the back of the ***Indoor Unit*** (A).

8. Using the edges of the units for alignment, stick the Indoor Unit (A) on the interior side of the window and **apply pressure for 2 minutes**.

> **Heads up!** Ensure the unit is oriented correctly with the logos on the front right-side up.

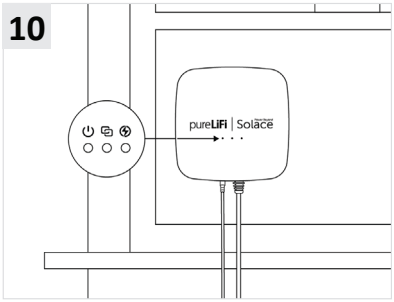


9. Now it's time to power up the LINXC Bridge™. Plug the other end of the ***Power Supply*** (D) into into the wall, and plug the other end of the ***Ethernet Cable*** (C) into your router.

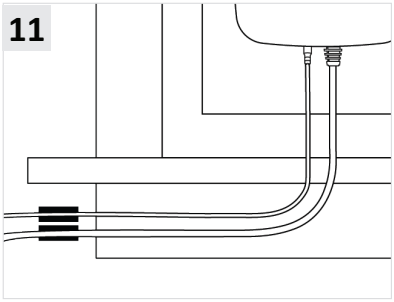


Putting It All Together (Continued)

10. Next, observe the LED indicators. The bootup sequence can take up to 60 seconds, and the units will be paired automatically. To find out what all of the LED codes mean, take a look at the “LED Translator” on page 8.

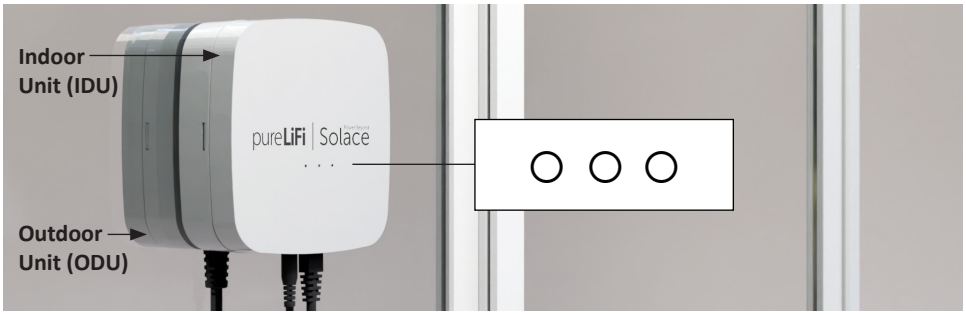


11. Finally, let’s make everything neat and tidy by using the included ***Cable Management Clips*** (F) to secure the cables to the wall.



The LED Translator

On the front face of the Indoor Unit, there are three small LEDs, each of which tell a different story. You can translate what each of these LEDs mean in the table below.

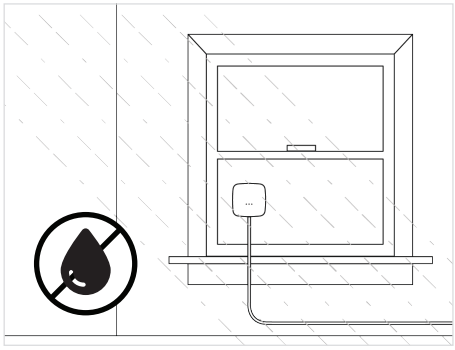


LED	Connection	Behaviour	Status
●○○	**Power**	○ **None**	No power to IDU or ODU
		White (Slow Blink)	No ODU detected
		White (Fast Blink)	Pairing with ODU
		Green (Steady)	Working well
		Red (Slow Blink)	Misaligned or window too thick
		Red (Fast Blink)	Window too thin
		Red (Steady)	Fault with power
○●○	**LiFi**	**White (Slow Blink)**	Booting / Pairing
		Green (Slow Blink)	LiFi link established but <850Mbps (check alignment)
		Green (Steady)	Strong LiFi link established >850Mbps
		Red (Steady)	LiFi link broken (hasn't paired in 4 minutes or link suddenly breaks)
○○●	**3rd Party Connection (5G Receiver)**	○ **None**	No 3rd party 5G Receiver detected
		Green (Steady)	3rd party 5G Receiver detected

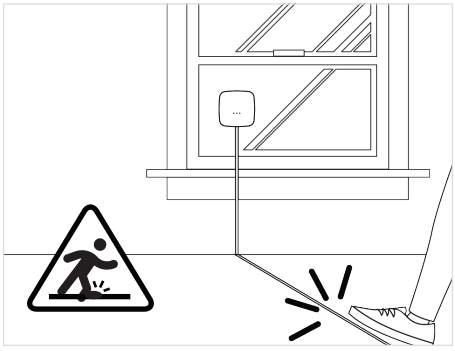
Some Important Advice

The LINXC Bridge™ is a safe product, but there are some things you should keep in mind when using it:

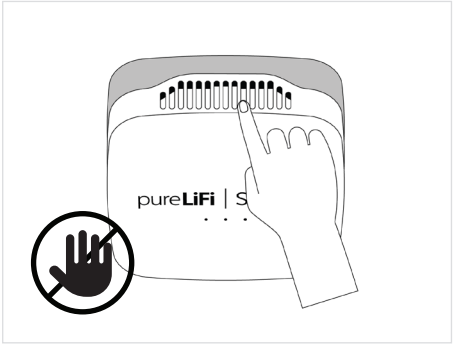
⚠ **It is recommended to keep the LINXC Bridge™ away from direct streams of water**, such as from a garden hose, sprinkler system, or heavy rain.



⚠ **Cables plugged into the LINXC Bridge™ can be a tripping hazard.** Be sure to use the included cable management clips to secure the LINXC Bridge™ to the wall.



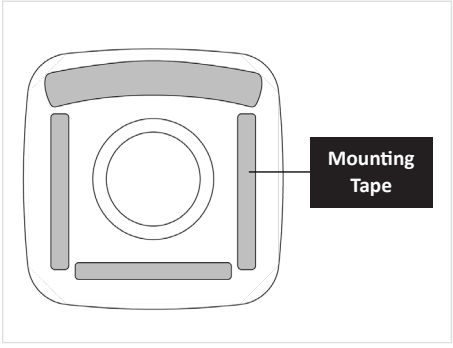
⚠ **Do not place fingers or objects into the air vents of the LINXC Bridge™.**

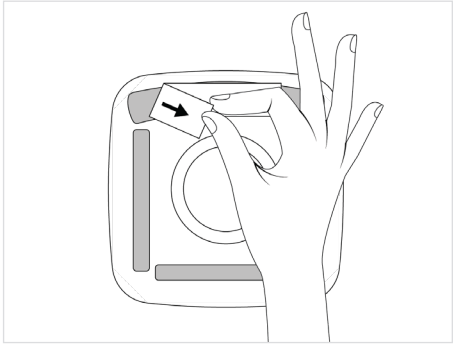


Some Important Advice (Continued)

Cleaning the Mounting Tape

If you ever need to reinstall the units in another area or you wish to reposition them to get a better alignment, it is very easy to do.





The mounting tape that comes pre-applied to the back of the units is reusable. If the mounting tape becomes dirty, clean the tape on the back by using a piece of transparent tape to remove the dirt from the adhesive. If you accidently touch the mounting tape with your hands, use isopropyl alcohol to remove the oils from the tape. Once the tape is dry, it may be used for mounting again.

Some Important Advice (Continued)

Pairing Mode & Factory Resetting Your LINXC Bridge™

In some instances, you may want to pair, unpair, or factory reset your device. You can do this by holding down the Reset button on the Indoor Unit for a certain amount of time, denoted in the table below:

Function	Action	LED Indicators
Factory Reset	Use a paperclip to depress **Reset Button** for 5 seconds.	 **All 3 LEDs flash green** multiple times as the unit factory resets.
Engineering Mode	Use a paperclip to depress **Reset Button** and a finger to depress **Function Button** simultaneously for 5 seconds to enter or exit Engineering Mode.	 **All 3 LEDs flash blue** multiple times while the unit is in Engineering Mode.
Activate LEDs	After 5 minutes without button interaction the outer LEDs will go out and the centre LiFi LED will dim.	 **Inactive**
	Momentarily depressing the **Function Button** for <1 second will activate all LEDs with full brightness.	 **Active**
Enter Pairing Mode	Depress **Function Button** for 3-9 seconds to enter pairing mode.	 **All 3 LEDs flash green twice** when the unit enters pairing mode.
Exit Pairing Mode	Depress **Function Button** for 10-16 seconds to exit pairing mode.	 **All 3 LEDs flash green twice** after 3 seconds,  then **flash white twice** after 10 seconds to indicate the unit has exited pairing mode.

Some Important Advice (Continued)

Function	Action	LED Indicators
Rebooting (with no change to software or firmware)	Depress **Function Button** for >17 seconds to reboot unit.	 **All 3 LEDs flash green twice** after 3 seconds,  then **flash white twice** after 10 seconds,  then finally **flash red twice** after 17 seconds to indicate the unit is rebooting.

Having Trouble? Let's Fix It!

If you are having trouble with your LINXC Bridge™, a list of common problems and their corresponding solutions can be found below:

Problem	Solution
The LED indicators are not lighting up on the Indoor Unit	Make sure the power cable is plugged into both the Indoor Unit and a working wall outlet.
The LED indicator is not lighting up on the Outdoor Unit	1. Check the alignment of the two units and improve if misaligned. 2. Unplug the power cable from the Indoor Unit and plug it back in. Wait 2 minutes for the units to power cycle.
Both units power up, but there is no Data Link	1. Check the alignment of the two units and improve if misaligned. 2. Unplug the power cable from the Indoor Unit and plug it back in. Wait 2 minutes for the units to power cycle. 3. Perform factory reset on both sides and wait 2 minutes. 4. If it's still not working, it's likely that the window is not supported by the LINXC Bridge™.
Both units power up, but the Data Link Quality LED blinks green.	1. Check the alignment of the two units and improve if misaligned. 2. Unplug the power cable from the Indoor Unit and plug it back in. Wait 2 minutes for the units to power cycle. 3. Perform a factory reset on both sides and wait 2 minutes. 4. If the LED is blinking green, it's likely that the LINXC Bridge™ can only operate at a reduced data speed on the current window.
The Indoor or Outdoor Unit is not sticking to the window	Ensure that the window has been properly cleaned and is fully dry. If the unit still does not properly adhere to the window, the tape may be dirty. Follow the steps on page 10 to clean the tape.