INFRAME

Router and Internet Guide



Connecting your garden room

The wired connection we provide, the WiFi equipment you add, and how to set it up.

Great spaces change lives.

A wired connection, from house to garden.

As part of your installation, we run a hard-wired **CAT 6 Ethernet** data cable from your main house to the garden room. It terminates at a single point inside the building, so if your garden room has more than one internal space, the connection still arrives at one central location.

CAT 6 supports gigabit speeds and suits home offices, video calls, streaming and general business use, subject to the speed of your broadband package.



Cable	CAT 6 Ethernet, hard wired
Route	From your main house to the garden room
Terminates	At one central point inside the building
Speed	Gigabit capable, subject to your broadband package
Inside the room	Further distribution is yours to arrange, unless agreed in advance

The WiFi is yours to add.

We don't supply the router or WiFi system. To create a wireless network inside your garden room, connect a suitable router, access point or mesh node to the CAT 6 we provide.

One option many of our clients have used successfully is the Linksys Velop AX4200 mesh system. Feedback has been very positive, with clients reporting a straightforward setup, quick synchronisation with their home network and stable performance in the garden room.



OUR CLIENTS' CHOICE

Linksys Velop AX4200

A tri-band WiFi 6 mesh node that can act as the primary unit, so it works behind your existing house router.

View it on Amazon

Linksys support page

Setup steps for the AX4200 are on page 6.

RECOMMENDED EQUIPMENT · LINKSYS

Linksys models that suit garden rooms.

Any of these will work with the CAT 6 connection to your garden room. Choose by the size of the space and how you'll use it.

01 **AX4200** Linksys support page

Primary-capable, tri-band WiFi 6 node.

02 **MX5300**

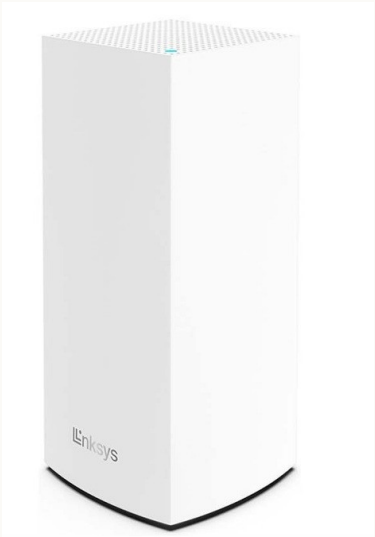
High-performance WiFi 6 node for larger garden offices.

03 **MX5500 series**

Modern WiFi 6 system, suited to a wired connection to an outbuilding.

04 **MX8500 series**

High-performance WiFi 6E system, for maximum range in large garden rooms.



OUR CLIENTS' CHOICE

Linksys Velop AX4200

The model many of our clients have used successfully. Setup steps are on page 6.

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First, check the wired connection.

We test the wired connection from your house to the garden building as part of our sign-off, so it should already be working. These steps let you confirm it yourself. If the wired path works, any issue lies with the router setup in the garden room, which needs to sync with your home network.

01 **Connect a laptop at the house**

Using a laptop and an Ethernet cable you know works, plug into a LAN port on your house router.

02 **Check it's online**

Open a browser and load a website to confirm the connection.

03 **Take it to the garden**

Unplug the same lead from the house router and take the laptop to the garden building.

04 **Plug into the wall port**

Connect the same lead to the CAT 6 wall port inside the garden building.

05 **Check it's online again**

If a website loads normally, the CAT 6 link between the house and garden building is working.

06 **If it isn't, check at the house**

- The CAT 6 runs from a LAN port on the house router to the termination point that feeds the garden building.
- Any switch in the path is powered and connected to the correct ports.
- All patch leads are firmly clicked in at both ends.

The result

If the laptop is online in both places, the hard-wired path is working.

SETTING UP · LINKSYS

Set it up at the house, then move it.

01 **Start next to your router**

Place the Linksys primary node beside your existing router.

02 **Connect and set up**

Connect it to your router with an Ethernet cable and complete setup in the Linksys app.

03 **Turn on Bridge Mode**

Once the system is running, open the Linksys app and enable Bridge Mode.

04 **Power down**

Switch the node off and unplug the Ethernet cable.

05 **Move it to the garden**

Connect it to the tested CAT 6 outlet. This cable must run directly back to the main router, or to a switch connected to it.

06 **Power back on**

The node comes online and works as a wired access point.

Worth knowing

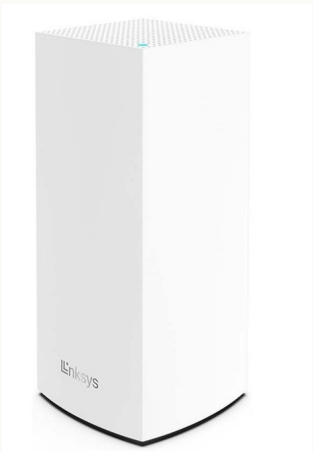
- Always set the node up next to the router first. Setup rarely works through a remote wired point.
- Bridge Mode is essential when your main router is from another brand.
- In Bridge Mode the node broadcasts WiFi as normal, and you can add more Linksys nodes later.
- You can plug wired devices into the node's Ethernet port in the garden building.

LINKSYS VELOP AX4200

A full primary node, not a child unit.

The AX4200 has full software and setup capability, so it isn't limited to extending another Linksys unit. It can work as:

- the main router that creates your network
- the main access point, in Bridge Mode, behind another brand's router
- a primary node that you add child nodes to later



WHAT THIS MEANS FOR YOUR GARDEN BUILDING

01

Bridge it behind your router

Connect it to your house router for setup, switch on Bridge Mode, then move it to the garden building and plug it into the live CAT 6 port.

02

Make it your main router

If you ever replace your house router, the AX4200 can take over as the main router.

GOOD TO KNOW

More rooms, setup help and what's included.

More than one room

If your garden room has several internal rooms, you can take the connection further with a small network switch for more wired points, extra access points, or additional mesh nodes. Some clients create separate areas for an office, gym or meeting space, each with its own needs.

If setup doesn't go smoothly

Mesh systems like the Velop usually work smoothly with home routers. If an issue does come up, for example a router with restrictions or an IP or DHCP conflict, we can recommend an independent IT specialist who has helped our clients before.

WHAT'S INCLUDED

Included	The physical CAT 6 connection between your house and garden room
Not included	Router configuration, WiFi equipment and internal network setup, unless agreed
Broadband speed	Always depends on the package at your main house
Not sure what to buy?	Speak to your broadband provider or an IT professional before purchasing

INFRAME

Great spaces change lives.

Designed around life. Engineered to last. Delivered by good people.

Telephone	**0204 551 2577**
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Any questions about your connection? Our support team is here to help.

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