

# Pre-configured Freifunk nodes

Here is a list of all the Freifunk nodes you can buy from us at cost price.

## What am i paying for?

As already told, you are getting the Freifunk node at cost price. So you are only paying for the router and not for the software or setup.

1. Software is free as in "Free Beer", you can even [download](#) it from our website
2. The setup is done by us or we can teach you how to do it yourself, if the [provided tutorial](#) is not enough for you
3. The router is not free we need to buy it, so you pay for the hardware

## Are the prices here accurate?

Yes and No

Yes, because we are checking them regularly to keep them up-to-date.

No, if we can get a router on summer or winter sale it will become cheaper.

The prices below, are the prices without any price reduction. If you buy for example, an archer c7 on summer sale, it will only cost you 72€ and not the 90€ announced here. In any situation, you will pay for the router the same amount as we did, after all you get it at cost price.

## What router should i buy?

It all depends on your situation:

- Do you need 2.4GHz and 5GHz?
- Do you want to install a Freifunk node indoor or outdoor or both?
- How many clients your network needs to handle?
- How many MB/s you want to have on your network?

For normal Home using a TP-Link WR940N is mostly enough. If you want also 5GHz, take the Archer C5.

If you want to setup a Freifunk network in a bigger bar, you can take the Archer C7 or the Fritzbox 4040.

If you want to provide Freifunk in your company or for an event, than you will need perhaps an offloader.

In any case, if you are not sure which router to get, feel free to contact us under [freifunk@c3l.lu](mailto:freifunk@c3l.lu).

## Indoor nodes

Freifunk nodes for the indoor use.

Manufacturer	Model	Networks	Estimated Price	Purpose
TP-Link	WR940N	2.4GHz	~30€	for little Bars or Home
TP-Link	Archer C5	2.4/5GHz	~60€	for medium Bars or Home
TP-Link	Archer C7	2.4/5GHz	~90€	for bigger Bars or Home
AVM	Fritzbox 4040	2.4/5GHz	~90€	for bigger Bars or Home
TP-Link	841N	2.4GHz	~23€	experimenting, repeater
Raspberry PI	2	depends on the wifi dongle	+80€	schooling and experimenting

## Outdoor nodes

Please keep in mind: The 5GHz channel is for indoor use only. It is not allowed in Luxembourg to use the 5GHz on outdoor routers with Freifunk software.

Freifunk nodes for the outdoor use.

Manufacturer	Model	Networks	Estimated Price	Purpose
TP-Link	CPE210	2.4GHz	~38€	60° directional radio AP, long distance meshing
TP-Link	WBS210	2.4GHz	~60€	60° directional radio AP, long distance meshing
Ubiquiti	NanoStation M2 LOCOM2	2.4GHz	~50€	outdoor router

## Offloader

Freifunk offloader to increase the bandwidth of your Freifunk network uplink. They are only needed in special situations, here some example of offloader devices.

Manufacturer	Model	Resources	Estimated Price	Purpose
PC Engines	APU2D4	3xGBLAN, 4GB DDR3 RAM, Quad core 1GHz CPU, 16GB msata	~205€	Home or small office offloader
PC Engines	APU3C4	3xGBLAN, 4GB DDR3 RAM, Quad core 1GHz CPU, 16GB msata	~205€	Home or small office offloader
PC Engines	APU4C4	4xGBLAN, 4GB DDR3 RAM, Quad core 1GHz CPU, 16GB msata	~250€	Home or small office offloader

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