

# Turning power lines into internet connectivity

 By [Colin Thornton](#)

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With some analysts predicting that the global power over ethernet (PoE) market will reach \$1bn by 2022, we are living in exciting times for the technology that uses the electrical wiring of a home as a wired data network.



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While sceptics argue that the concept is dated and all but obsolete in the age of Wi-Fi, the simplicity and reliability of PoE offer users a solution that wireless technology cannot match. If anything, the two approaches should be viewed as complementary and not simply a case of picking either the one or the other.

In many respects, a PoE network more effectively addresses the age-old problem of having ethernet cables running all over a house to link everything from televisions to computers to a high-speed internet network. And while a wireless network does a similar job, the fixed-line approach of PoE provides more consistent speeds, is more secure and reliable, and really is easy to use.

## Configuring your home

Configuring your home for PoE is as easy as purchasing a basic kit containing two powerline adapters and two ethernet cables. You connect one of the ethernet cables to your router and to the first of the adapters which will be plugged into the nearest power socket. You can then use the second cable and adapter to connect to your television in the living room ...and that is it.

The adapters will auto-detect each other so there is no need to download additional drivers or go through a lengthy configuration process. Once it is setup, your television will be linked to the internet - enabling you to enjoy all the benefits of streaming video with no hassle at all.

## A bridging technology

PoE should be considered a bridging technology. This means it is useful for extending the reach of a home network to places where wireless coverage is poor or where you need the fastest possible connection.

For example, think next to a gaming console that requires high-speed internet access. It is also the perfect solution to connect old devices that do not have built-in Wi-Fi access and that you previously had to link up using a tangle of ethernet cables.

Additionally, PoE technology is arguably more secure than a wireless network. Data sent across the copper wiring of your home cannot be hacked or intercepted like a wireless signal. And, a PoE kit also encourages you to password-protect the adapters providing a secondary layer of protection.

You should, therefore, give serious consideration to going the PoE route to complement your existing wireless network - especially if you want to transform your home into a high-speed connected environment.

## ABOUT COLIN THORNTON

Colin founded Dial a Nerd in 1998 as a consumer IT support company and in 2002 the business- focused division was founded. Supporting SMEs is now its primary focus. In 2015 his company, merged with Turrito Networks who provided niche internet services outside of the local network. These two companies have created an end-to-end IT and Communication solution for SMEs. Colin has subsequently become the managing director of Turrito. Contact him at [info@dialanerd.co.za](mailto:info@dialanerd.co.za)

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