

# POWERLINE WI-FI

## PLA-WIFI-01

Art.nr. 999-102

The Powerline Wi-Fi unit is used to create a powerful Wi-Fi network using the over existing mains electrical wiring. One Wi-Fi unit is placed by the internet modem and the additional Wi-Fi units should be located where the signal needs to be improved. The units are linked by pressing the 'link' button for three seconds. The Technetix Wi-Fi units will automatically create one Wi-Fi SSID with one password after they are linked. The units will work together and automatically move users to the best performing unit in real time.



Connecting with quality!

# Technetix G.hn Powerline Wifi

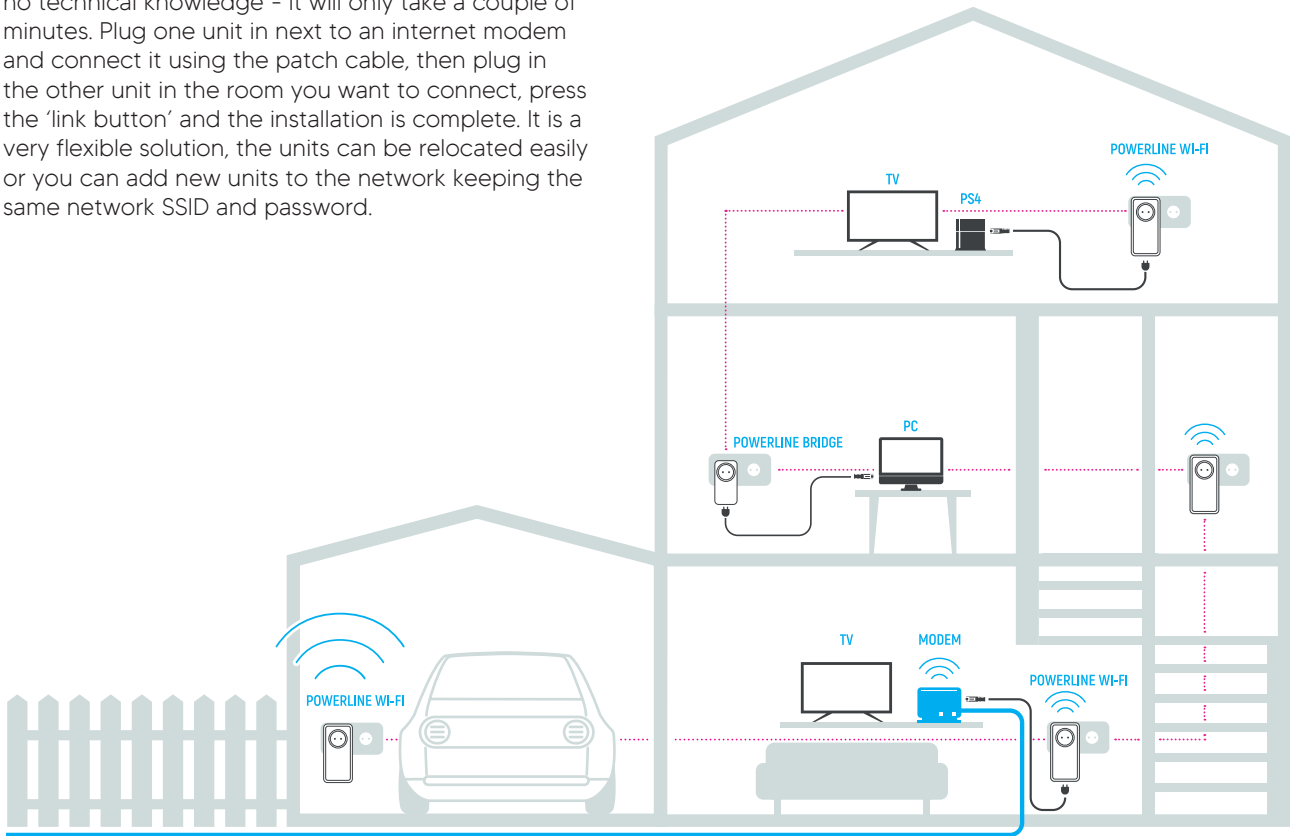
## Introduction

In recent years Wi-Fi has become an essential part of the in-home network, with decent Wi-Fi coverage a high priority for most people. It is not always easy to get a high quality Wi-Fi signal in all areas of the home without putting ethernet cabling and access points in place.

Powerline technology enables you to establish an ethernet connection over existing mains electrical wiring. This ethernet connection can be used to connect a TV or PC and will also feed a Wi-Fi access point.

The Powerline products have been upgraded to G.hn, a new standard which allows for physical layer rates in excess of 1 Gbps and are much more stable than previous HomePlug approved products.

This solution is extremely easy to install and requires no technical knowledge - it will only take a couple of minutes. Plug one unit in next to an internet modem and connect it using the patch cable, then plug in the other unit in the room you want to connect, press the 'link button' and the installation is complete. It is a very flexible solution, the units can be relocated easily or you can add new units to the network keeping the same network SSID and password.



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## Features

- Creates a powerful Wi-Fi network over existing mains electrical wiring
- Plug & Play – simple five minute setup – no apps – no configurations – no registration
- Seamless roaming technology for automatic configuration of your second Wi-Fi unit SSID, moving users seamlessly between the two units
- Supports high internet speeds needed for 4K video streaming, gaming or using a smart TV
- Create a group of up to 16 high-speed Wi-Fi points
- Use in combination with the Technetix G.hn Powerline bridge
- Advanced Wi-Fi web interface available
- 1 one-metre CAT6 cable included.

## Specifications

| Item  | Description  |
|---|--|
| Product type                                | G.hn powerline ethernet adapter  |
| RJ-45 port                                  | 1 GbE port   |
| Powerline physical layer communication rate | 1 Gbps   |
| Frequency band                              | 2 MHz to 50 MHz  |
| Access methods                              | CSMA/CA and TDMA   |
| Modulation                                  | 4096/1024/512/256/128/64/32/16/ 8-QAM, QPSK, BPSK  |
| Powerline feature                           | ITU-T recommendation G. 9960 - physical layer<br>ITU-T recommendation G. 9961 - data link layer<br>ITU-T recommendation G. 9962 - management specification<br>ITU-T recommendation G. 9963 - MIMO<br>ITU-T recommendation G. 9964 - Power spectral density |
| Distance                                    | AC wire: up to 300 metres  |
| Computer OS                                 | OS independent   |
| Maximum number of units in a network group  | 16 (in the same single-phase powerline loop)   |
| IGMP  | Support for IPv4/IGMP v1, v2 and v3 snooping IPv6 transparent (not including multicast)  |
| Encryption                                  | 128-bit AES link encryption with key management  |
| LAN standards                               | 1000 base-TX, 100 base-TX  |
| Wireless physical layer                     | 1200 Mbps  |
| Wireless standard                           | IEEE 802.11 a/b/g/n/ac   |
| Seamless roaming standards                  | 802.11 k/v/r   |
| Wireless frequency                          | 2.4 GHz, 5 GHz   |
| Antenna                                     | 2 x 2  |
| Wireless features                           | Supports dual-band concurrent<br>Supports IEEE 802.11 ac MIMO<br>Supports TxBF   |
| Temperature                                 | Ambient operating -10° C to 40° C; storage: -20° C to 60° C  |
| Relative humidity                           | Operating: 10% - 85% (non-condensing)<br>Storage: 5% - 90% (non-condensing)  |
| Power source                                | AC 100 V-240 V, 50 Hz/60 Hz  |
| Wireless 5 GHz range                        | 5 GHz<br>5.15 GHz - 5.25 GHz + 5.725 GHz - 5.85 GHz (US)<br>5.15 GHz - 5.25 GHz (Europe ETSI)<br>5.25 GHz - 5.35 GHz (US DFS band)<br>5.47 GHz - 5.725 GHz (US DFS band)<br>5.25 GHz - 5.35 GHz (EU DFS band)<br>5.47 GHz - 5.725 GHz (EU DFS band)        |
| AC pass-through                             | Yes  |

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