

PLC2 1200+ WiFi ac

Technical Specifications



Next generation PLC: strong backbone for a great WiFi experience!

Enable high-performing, convenient WiFi based on a strong PLC backbone.

-  Smart WiFi 802.11 ac: Ensures seamless whole-home WiFi coverage, best possible connections for smartphones, laptops and tablets and an outstanding user experience.
-  The next generation of powerline communications (PLC), based on G.hn Wave-2: The perfect backbone for Smart WiFi, using existing wiring. Every power outlet can become an access point.
-  The adapter is equipped with two Ethernet LAN ports.
-  The integrated electrical socket ensures that no power outlet is lost!
-  Automatic encryption without any user interaction!
-  devolo can ensure a fast rollout by using standard adapters which can receive a customer specific FW in the field, thus also enabling access to TR-069 later.
-  Overcomes long distances: Range of up to 500 meters (PLC) - for strong connections from the cellar to the attic and over to the garage.
-  TR-069 remote configuration for excellent and cost-effective customer support. TR-069 enables a comprehensive remote error analysis for Internet Service Providers, down to the PLC adapter.

Highlight

Smart WiFi Technology

Roaming & mobility:

No interruption while roaming the home. Mobile clients switch from one access point to another unnoticeable.

Optimal frequency and channel selection: The mobile client will be switched to the best band and channel combination without user interaction.

Airtime Fairness:

The available WiFi Airtime will be shared fairly between all connected clients.

Config Sync:

Comfort features like guest network etc. will be synchronized automatically between all devices.

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Technical Data

Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3az, IEEE 802.1p, AutoMDI/X, G.hn Wave-2 IEEE 802.11 a, b, g, n, ac, k, v, r (2.4 / 5 GHz concurrent), Airtime Fairness, Bandsteering, IEEE1905.1
Processors	G.hn Wave-2 88LX5152 / WiFi AR9344 (802.11n) + QCA9882 (802.11ac)
Protocols	CSMA/CA (Powerline)
Transmission speeds & methods	Ethernet 10/100, Powerline 1200 (Mbps) WiFi asynchronous (866 Mbps on 5 GHz band + 300 Mbps on 2.4 GHz band), max. 100 (Mbps)
MIMO technology	No
Modulation • carrier	Powerline OFDM - 4096/1024/256/64-QAM, QPSK, BPSK • Powerline 2880 WiFi DSSS (IEEE 802.11b) • WiFi OFDM (IEEE 802.11a, g, n, ac) • WiFi 32
Range (in m)	Wi-Fi: 300 / Powerline: 400
Security	128-bit AES encryption via powerline, pairing: can be activated directly by pressing a button (random key) or manually and individually using software, WiFi: WPA/WPA2/WPA3, WPS PIN, WPS PBC, WiFi Time Schedule, 128 Bit AES
LEDs	Multifunction / WiFi
Buttons	Encryption button (for pairing the adapters)
Socket / connector / countries	DE, NL, ES, PT, AT, SE, FI, NO, GR, HU, LU: Typ F (CEE 7/4) / Typ F (CEE 7/4), FR, BE, PL: Typ E (CEE 7/5) / Typ E + F (CEE 7/7)
Device port	2 x Ethernet RJ45, 4 x integrated antenna
Power output	230 V / 16 A max. (to integrated socket), attenuation filter: 2-80 MHz
Filter characteristics	-22 dB to -45 dB
Power consumption	Maximum W/A: ~7.6 / 0.1, typical W/A: ~5.1 / 0.1, stand-by W/A: ~2.0 / 0.1
Power supply	Internal, 196-250 V AC, 50 Hz
Temperature	-25°C to 70°C (storage); 0°C to 40°C (operating)
Dimensions and weight	152 x 76 x 40 mm (height x width x depth). Approx. 360 g
Ambient conditions	10-90% humidity (non-condensing)
Compatibility	Compatible to G.hn Wave 1, Coexistent to HomePlug AV, improved VDSL interoperability to 17a and 35b, API for App support
Quality of service features	<ul style="list-style-type: none"> • Data prioritisation for quality assurance of real time applications (e.g. VoIP or IPTV) • FEC (Forward Error Correction) and retransmissions • 4 priority levels • Priority levels can be adapted individually for the application (depending on the project)
Certification	CE, HomeGrid Forum
devolo Managed Service	Managed FW update

