

devolo Magic 2 Wifi next (PLC2 2400+ WiFi ac+)

Technical Specifications



Whole-home WiFi: The high end solution for all broadband applications

devolo's latest adapter gives your customers the chance to browse with more speed, no hiccups and on multiple devices at once. Powerful mesh WiFi supported by power-line technology ensures top-notch coverage and high-speed data flow.

-  Mesh WiFi (ac Wave 2): 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 Mesh WiFi, using existing wiring. Every power outlet can become an access point.
-  The adapter is equipped with two Gigabit Ethernet LAN ports.
-  The integrated power socket has a mains filter for interference-free and high-performance data transmission. No power connection 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

Mesh WiFi

Roaming & Band Steering:

Smooth roaming with the best connection: Mobile clients switch between access points and bands unnoticeable.

Access Point Steering:

In complex network topologies with multiple access points, the load distribution is optimised and it is ensured that WiFi devices always have the best connection.

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.

PLC2 2400+ WiFi ac+

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 Wave 2, k, v, r (2.4 / 5 GHz concurrent), Airtime Fairness, Band Steering, Access Point Steering, IEEE1905.1
Processors	G.hn Wave 2 88LX5152 / WiFi AR9344 (802.11n) + QCA9882 (802.11ac)
Protocols	CSMA/CA (Powerline)
Transmission speeds & methods	Ethernet 10/100/1000, Powerline 1200/2400 (mbps) WiFi asynchronous (866 mbps auf 5 GHz band + 300 mbps auf 2.4 GHz band)
MIMO technology	Yes
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)	WiFi: 300 / Powerline: 500
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
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: ~12.0 / 0.1, typical W/A: ~9.0 / 0.1, stand-by W/A: ~3.4 / 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). Appox. 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

