FRITZ!Powerline 546E

Extending the Home Network with Powerline and WiFi

FRITZ!Powerline 546E combines fast networking over your home's electric wiring with the flexibility of a wireless network for surfing and networking the home. In no time at all, any socket can become a secure, fast network connection with transmission speeds of up to 500 Mbit/s in the power grid. FRITZ!Powerline networks the FRITZ!Box, PC, printer, TV, sound system, Blue-ray player and other network devices via a LAN port (up to 100 MBit/s). Using the wireless access point, smartphones, tablets and other mobile devices can also be integrated into the network wirelessly at rates of up to 300 Mbit/s.

The supply of electricity to connected devices can also be controlled, with their power consumption measured, recorded and evaluated. A switching schedule rounds out the Smart Home application. The recorded power consumption of connected devices is displayed according to various parameters in clear, intuitive diagrams in the Smart Home area of its own browser-based user interface. This interface presents an instant status overview and enables firmware updates as well as all WiFi, powerline and Smart Home settings.

Highlights at a Glance

- Expands the home network using your house's wiring
- Powerline with up to 500 Mbit/s, securely encrypted
- Immediately ready for operation at any outlet without any software installation
- Fast Ethernet for connecting TV, Blue-ray, stereo, game consoles
- Wireless LAN access point at up to 300 Mbit/s (2.4 GHz) for connecting PC, tablet, smartphone, printer and other network devices
- Optional repeater function to extend the router's wireless range
- Socket with intelligent switching (automatic and manual), measurement and analysis of consumption

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Data transmission over existing power lines

LAN port

Wireless N
2.4 GHz

Technical Features

Powerline Functions

- Expands the home network using your house's wiring
- Operation at any outlet without any software installation
- Up to 500 Mbit/s* powerline data throughput: Stable connections over large distances in network
- For bandwidth-intensive applications in multiple rooms: HD video (including 3D), multimedia streaming, Internet access over VDSL and cable
- 2x Fast Ethernet (100 Mbit/s) for connecting PC, printer, TV, Blu-Ray, stereo, game console
- Quality of Service: Data prioritization for video transmission and Internet telephony free of interference
- Multicast: Supports multicast sessions using IGMP
- Encrypted securely upon delivery: 128-bit AES link encryption and key management
- Compatible with powerline adapters supporting rates of 500 and 200 Mbit/s and the IEEE P1901 standard, coexistence with older powerline adapters
- Support for IPv6

WLAN Functions

- Wireless LAN access point compliant with IEEE 802.11b (11 Mbit/s), g (54 Mbit/s), n (300 Mbit/s) in the 2.4 GHz frequency band
- Connects PC, tablet, smartphone, printer and other network devices wirelessly
- Maximum wireless LAN security with WPA2 (802.11i), simple configuration with WPS (Wi-Fi Protected Setup) at the touch of a button
- Repeater function option; increases the range of the wireless network of the FRITZ!Box or other router

Smart Home Functions

- Socket with intelligent switching, measurement and analysis of consumption
- Power line filter minimizes high-frequency interference caused by connected consumers
- Controls power supply to devices (up to 2,300 watts) automatically or manually
- Automatic switching: once, daily, on weekdays, according to a fixed sequence, random, using the sunrise/sunset function, or according to the Google calendar
- Measures and records the power consumption of connected electrical devices
- Energy evaluation: current power in watts, current voltage, evaluation by hour, day, month, year in kWh, €, CO2 emissions
- Control via PC, notebook, smartphone or tablet – even over the Internet
- Switching and display of current power on the FRITZ!Fon
- New features added with updates

Web-based User Interface

- Simple operation through its own user interface (http://192.168.178.2 or http://fritz.powerline if connected to a FRITZ!Box)
- Allows settings for wireless LAN, Smart Home, network updates and more
- Status display and operation using the LED buttons

Ports and Interfaces

- Connection to mains with 230V, 50 Hz to socket for type E CEE 7/5 or F CEE 7/4 plug
- 2 x Fast Ethernet (10/100 Base-T, RJ45 jack) for FRITZ!Box, PC, TV, printer, stereo system, Blu-ray player and more
- Wireless LAN access point IEEE 802.11b (11Mbit/s), g (54 Mbit/s), n (300 Mbit/s) in the 2.4 GHz frequency band for PC, tablet, smartphone, printer and other network devices
- Integrated 230-V socket with power line filter for devices: up to 2300 watts, max. 10 A

Physical Specifications

- Dimensions (W x H x D) approx. 59 x 132 x 41 mm (without plug)
- Weight: approx. 220 g
- Maximum power consumption: approx. 4 W

Service

AVM's service includes comprehensive service portals on the products, regular free updates and our critically acclaimed e-mail support.

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