



AVM FRITZ!Box 6850 5G Edition International

The ideal introduction to home networking with 5G mobile communications

The FRITZ!Box 6850 5G Edition International brings ultra-fast internet over 5G mobile networks to the wireless home network at speeds of up to 1300 MBit/s. With the usual ease and convenience, the FRITZ!Box 6850 5G connects all computers, smartphones, tablets, printers and other network devices with the home network. Gigabit LAN, USB 3.0 and the VoIP telephone system with DECT base station round out the versatile communication package.

Mobile high-speed internet with 5G

The mobile network modem integrated in the FRITZ!Box 6850 5G is suitable for *standalone* 5G and *non-standalone* 5G, and also backward compatible to 4G/LTE Advanced Pro and 3G/UMTS. Depending on the availability of the signal, the FRITZ!Box switches flexibly between the 5G, 4G and the 3G network. This way users always benefit from optimum speeds. The intelligent alignment aid in the FRITZ!Box 6850 5G assists in determining the best location for the router as well as the ideal orientation for external mobile broadband antennas.

Fast Wireless AC+N with Mesh convenience

Thanks to dual Wi-Fi, the FRITZ!Box 6850 5G transmits concurrently on the 2.4 GHz (Wireless N) and 5 GHz (Wireless AC) frequency bands. Broadband-intensive applications can thus be used in parallel operation on multiple wireless devices. As the Mesh Wi-Fi hub, the FRITZ!Box 6850 5G provides for optimum Wi-Fi quality throughout the entire home network: In the Mesh Wi-Fi, multiple distributed wireless hubs (for instance, the FRITZ!Box and several FRITZ! Repeaters) are combined into a single intelligent Wi-Fi network. The FRITZ!Box 6850 5G is always the hub (Mesh Master), actively controlling all of the other access points so that wireless devices used in the home network are always registered with the access point that offers the best connection. Mobile wireless devices switch between the access points automatically, without any interruption to active applications.

Versatile Smart Home and convenient telephony

Smart Home devices like the FRITZ!DECT 301 radiator control, the FRITZ!DECT 200/210 smart plugs, the FRITZ!DECT 440 switch and the FRITZ!DECT 500 LED light are controlled via the integrated DECT base station. With the integrated telecommunications system, an analog telephone and up to six DECT cordless telephones (FRITZ!Fon, for instance) can be registered.

Via Wi-Fi, even smartphones can turn into full-service VoIP telephones. Multiple integrated answering machines, local telephone books and online telephone contacts and a slew of convenience functions round out the broad telephony palette.

Versatile multimedia functions

The FRITZ!Box 6850 5G also brings connected USB storage media into the home network as well as online storage media and all of the contents stored there. Thanks to the integrated media server coupled with NAS, stored videos, music and pictures are made available for distribution to playback devices like smartphones. This makes the FRITZ!Box 6850 5G a powerful and efficient platform for networked multimedia applications like IPTV, video on demand and 4K streaming.

AVM FRITZ!Box 6850 5G at a Glance

Internet Connection

- Internet connection via 5G with up to 1.3 Gbit/s
- Support for standalone 5G and non-standalone 5G (3GPP release 15)
- Internet access via 4G/LTE Advanced Pro (LTE category 16) with up to 1 Gbit/s, 3G support
- Secure internet use through the preconfigured firewall
- Secure remote access to the home or company network via VPN
- Support for Dynamic Spectrum Sharing (DSS)

Wi-Fi

- More performance, flexibility and the robust connections thanks to concurrent Wireless AC+N (dual band)
- Ultra-fast 866 Mbit/s and stable transmission via Wireless AC (5 GHz)
- Fast 400 Mbit/s and high range through Wireless N (2.4 GHz)
- Mesh Wi-Fi convenience: Automatic consolidation of the deployed FRITZ! products into a single intelligent Wi-Fi network with optimized performance
- Secure Wi-Fi encryption in accordance with the WPA2 standard, individual password enabled upon delivery
- Simple, secure registration of new wireless devices in the home network at the push of a button (WPS)
- Convenient, secure Wi-Fi guest access without access to the private home network

Telephony

- VoIP telephone system with versatile convenience functions for analog, DECT and IP telephones
- DECT base station for up to 6 cordless telephones (including all FRITZ!Fon models) and for outlet switches and the FRITZ!DECT radiator control
- Up to five integrated answering machines with remote inquiry and optional email forwarding
- Management of telephone books, even online contacts (like Google) can be integrated, e.g. Google and Apple
- Fax reception and dispatch
- DECT radio switched off for standby operation (DECT Eco)

FRITZ!OS

- Simple, user interface for all settings in DE, EN, FR, ES, IT, PL, NL
- Provision of music, videos, and images via integrated media server, for instance on smart TV
- With MyFRITZ!, secure access to your own FRITZ!Box and network storage from anywhere in the world
- Parental controls with versatile filters, for instance time limits for internet access, blocks for websites and exchange platforms
- Convenient and secure allocation of the Wi-Fi/LAN guest access
- New functions constantly added with regular, free updates, always up to date with the auto update function
- Energy savings through scheduled Wi-Fi switching and power adjustment for the LAN (Green mode)

Interfaces

- 1 powerful USB port for storage media (NAS) and network printers
- 4 ultra-fast gigabit LAN ports for computers, televisions and other network devices
- 1 analog telephone jack

AVM FRITZ!Box 6850 5G – Ideal in combination with:

- FRITZ!Fon
- FRITZ!DECT
- FRITZ!WLAN Repeater
- FRITZ!Powerline
- FRITZ!Apps

Package contents

- AVM FRITZ!Box 6850 5G Edition International
- External mobile radio antennas
- LAN cable, 1.5 m
- Power adapter
- Quick guide in DE, EN, FR, IT, NL, PL

Product Information

AVM part number: 20002928
EAN: 4023125029288

Weight of FRITZ!Box: 584 g
Dimensions (W x H x L): 208 x 37 x 150 mm
Total product weight: 765 g
Dimensions of box (W x H x L): 260 x 68 x 183 mm

Manufacturer's warranty: 5 years