

# FRITZ!Box 6825 4G



## The FRITZ!Box for fast internet via 4G mobile network

FRITZ!Box 6825 4G brings fast 4G mobile internet with up to 300 Mbit/s to the wireless home network. As a fixed wireless access solution, it supports 4G (Category 6) and 3G. With powerful Mesh and Wi-Fi 6, it distributes data wirelessly throughout the home at up to 600 Mbit/s. The highest security standards (WPA3/WPA2) ensure increased protection.

Thanks to the small and compact design, the FRITZ!Box 6825 4G can be easily used both at home and on the go. Power supply via USB-C not only enables the use of suitable chargers, e.g. from smartphones, but also power banks with a USB-C interface. The practical alignment aid in the user interface makes ideal positioning of the FRITZ!Box 6825 4G relative to the mobile network child's play.

The FRITZ!Box 6825 4G is also perfectly suited as a failover device on another FRITZ!Box with an integrated DSL, cable, or fiber optic modem.

## Product highlights



**For every 4G or 3G mobile network: High-speed Internet access with up to 300 Mbit/s**



**Fast Wi-Fi 6 + Mesh WiFi: Wi-Fi with up to 600 Mbit/s (2,4 GHz)**



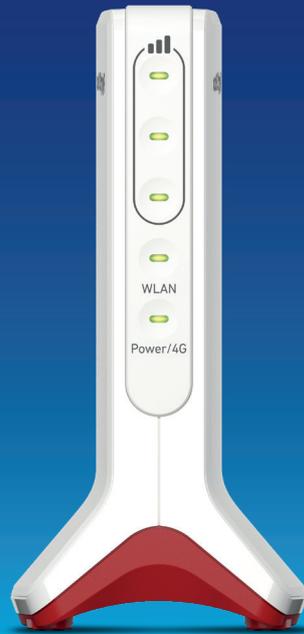
**Mesh Wi-Fi: an intelligent Wi-Fi system for the home network**



**Ideal as fallback protection device on another FRITZ!Box with fixed network access**



**FRITZ!OS: MyFRITZ! and auto update**



## Technical specifications

### Ports and Interfaces

- Wireless router with integrated 4G/3G modem
- Internet via mobile networks
- Internet also via Wi-Fi hotspots
- LAN: 1 gigabit Ethernet, 10/100/1000 BASE\_T
- 1 x nano-SIM slot
- Powered via USB Type C (5 V/3 A)
- WPS (Wi-Fi Protected Setup) and Mesh Trust via Connect button
- Can be placed on table/desk or windowsill
- Stateful Packet Inspection firewall with port sharing
- Parental controls with time budget, list of permitted and blocked websites
- Complete support for IPv6 in the internet and home network
- Secure remote access over the internet with VPN using IPSec or WireGuard
- Security wizard with diagnostic tool
- Regular auto updates

### Mobile Communications

- Mobile internet access over 4G with up to 300 Mbit/s
- Support for 3GPP Rel. 10
- 4G / LTE Advanced according 3GPP Category 6
- 4G bands: b1, 3, 5, 7, 8, 20, 28, 32, 38, 40, 41
- 2x2 MIMO support for all 4G bands
- 3G support (UMTS/HSPA+) via bands: B1, 5, 8
- Carrier Aggregation with up to 2CC 4G (DL):
  - 1A-1A/3A/5A/7A/8A/20A/28A/32A/38A/40A/41A
  - 3A-3A/5A/7A/8A/20A/28A/32A/38A/40A/41A
  - 5A-5A/7A/38A/40A/41A
  - 7A-7A/8A/20A/28A/32A
  - 8A-32A/38A/40A/41A
  - 28A-32A/38A/40A/41A
  - 20A-32A/38A/40A
  - 1C,3C,5B,7B,7C,38C,8B,40C,41C
- Practical alignment aid

### Wi-Fi

- 2 x 2 Wi-Fi access point with Wi-Fi 6 up to 600 Mbit/s (2.4 GHz)
- Extends the home network with Mesh Wi-Fi
- Several wireless access points can be simply combined into one intelligent system
- Compatible with IEEE 802.11g/n/ax
- Wi-Fi network encryption with WPA3/WPA2
- Wi-Fi can be turned on and off via schedule
- Wi-Fi guest access – secure surfing for guests



## Network

- TR-069 (TR-069/104/140) support including documentation of the data model in accordance with the Broadband Forum TR-106
- TR-369 support (USP) for real-time monitoring with multi-controller support including rights management
- Speed test via iPerf and TR-471 (depending on the platform)
- SPI firewall, DoS protection
- IPv6 and IPv4 dual stack including DS-Lite with PCP support
- 802.1Q support for WAN connections
- Multiservice (e.g. HSI, TR-069, IPTV)
- WAN connection type with PPPoE, DHCP, static IP, bridging encapsulation
- Public subnet configuration (up to /28) for addressing clients publicly in the LAN
- Exposed host / port forwarding
- VPN support (IPSec and WireGuard), VPN passthrough
- No vendor lock-in. Platform and data remain with ISP (internet service provider)
- ACS URL via DHCP Option 43, or PPPoE zero-touch deployment
- IGMP proxy (v3 and below)
- DNSSEC and EDNSO support

## FRITZ!OS

- Offers a clear, browser-based user interface that's intuitive
- User interface protected by device-unique preconfigured password
- Sensitive user settings protected by 2FA, including support for authenticator apps
- Multilingual user interface
- With MyFRITZ!, the FRITZ!Box can be accessed securely from anywhere
- Convenient features such as parental controls, push service
- Wake on LAN over the internet
- Wi-Fi phone calls in the home network with iPhones and Android smartphones
- FRITZ!Box interface specially designed for smartphones and tablets
- Home network overview, help functions with full-text search, and much more
- New features provided in free updates: [en.fritz.com/products/fritzos/](https://en.fritz.com/products/fritzos/)
- Free FRITZ!Apps for access to the FRITZ!Box from on the go and optimizing the Wi-Fi connection

## Device Properties

Dimensions in mm (W x H x D):  
65 x 135 x 98 mm

Average power consumption: 4.1 W

Maximum power consumption: 7.5 W

# FRITZ!

## Why?



**Direct contacts in Sales, PreSales, and Engineering**



**Training sessions with FRITZ! staff for engineering and support**



**Technical support (also on site) and sales consultation**



**In-house hardware and software development in Berlin**



**Real-time monitoring with the open TR-069 & TR-369 standards**



**Regular updates with security as top priority**

### FRITZ!OS

FRITZ!OS is the genius of the FRITZ! family. With this smart operating system, the FRITZ! team opens up a broad spectrum of possibilities in your customers' home networks. Your FRITZ!Box uses the most advanced technologies while providing for the right balance between exciting features and simple operation.

### Software updates

FRITZ!OS, our router operating system, is updated regularly to implement new features and to guarantee long product life cycles. And all updates are offered to our customers free of charge.

### Device management

The FRITZ!Box supports not only OMCI management but also offers comprehensive support for TR-069 and USP (TR-369), right out of the box. The use of open standards puts a broad palette of ISP-relevant management parameters at your disposal, no matter which technology you use.

### Eco design

FRITZ! products are characterized by low power consumption and configurable energy-saving modes. Production in Europe means short transport routes, secure labor conditions, and the use of environmentally sustainable materials.

Many years of software updates with expanded functions, bug fixes, and security updates ensure long life cycles.

### Product quality

Developed and produced in Germany and Europe, our FRITZ!Box fulfills its market promise to its end customers, by ensuring proven reliability with success in the field. Before being launched on the market, the products run through extensive lab phases which offer customers the opportunity to evaluate new features in advance.

### An all-in-one device

A FRITZ!Box is a joint router, installed directly at the internet connection. This saves power, while ensuring convenient operation and simplifying device management. Internet, Wi-Fi, streaming, and much more – combined in a single device.

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