FRITZ!

FRITZ!Box 4050

For a fast home network with Wi-Fi 6 and Mesh Wi-Fi

The new FRITZ!Box 4050 for Wi-Fi 6 (Wireless AX) is perfect for connecting to a fiber optic, cable, or DSL modem that is already in operation.

With up to 2400 MBit/s (5 GHz) and 600 Mbit/s (2.4 GHz) it offers a fast internet connection for a speedy home network. The FRITZ!Box 4050 masters multiple parallel 4K streams, video chats, downloads, and cloud applications effortlessly.

It is equipped with one gigabit WAN port, three gigabit LAN ports, one USB port, and a VoIP telephone system with a DECT base station. It also offers an analog telephone jack. Its compact design and low energy consumption make the FRITZ!Box 4050 ideal for starting off with a modern, networked home.

Product highlights

Proven and reliable Wi-Fi 6 with up to 2400 Mbit/s + 600 Mbit/s

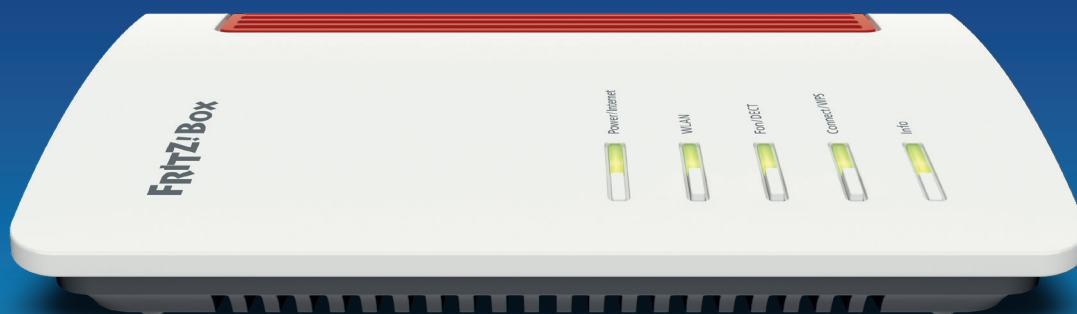**Analog telephony and VoIP via DECT for cordless telephones**

Smart Home functions for the intelligent home with DECT devices

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

FRITZ!OS: Media server, NAS, MyFRITZ!, auto update

Technical specifications

Interfaces

- Wireless router
- Router can be used with a fiber optic or cable modem, as well as with a mobile network dongle
- 1 x 1 gigabit WAN/LAN, 3 x 1 gigabit LAN
- Stateful Packet Inspection Firewall with port sharing for secure surfing
- Parental controls with time budget, Filter lists (permitted and blocked websites)
- Complete support for IPv6 in the internet, home network, and for telephony
- Secure remote access over the internet with VPN
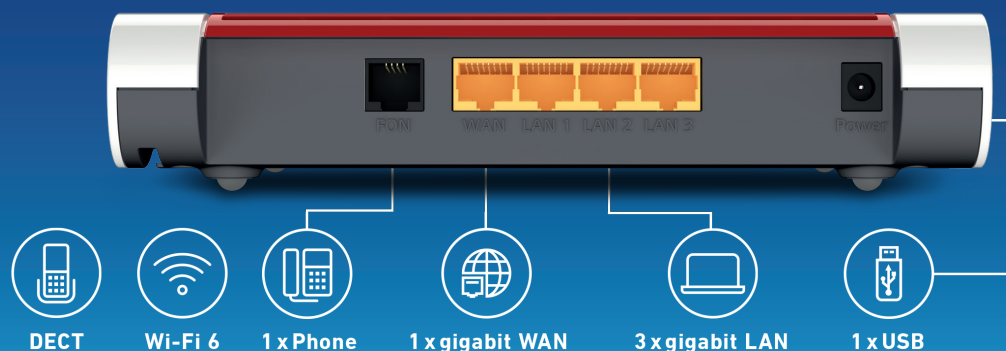- Security wizard with diagnostic tool and auto updates

Wi-Fi

- 2 x 2 Wi-Fi access point with Wi-Fi 6 up to 2400 Mbit/s
- (5 GHz) and 600 Mbit/s (2.4 GHz)
- Extend the home network with Mesh Wi-Fi – simply combine several wireless access points into one intelligent system
- Compatible with IEEE 802.11a/g/n/ac/ax
- Wi-Fi network encryption with WPA3/WPA2
- Wi-Fi can be switched on and off via button, connected telephones, or schedule
- Wi-Fi guest access – secure surfing for guests
- Can be mounted on a wall or placed on a table/desk

WAN/LAN

- Internet access via 1G WAN port; can be used as LAN port (switchable)
- LAN 1 - 3: Gigabit Ethernet, 10/100/1000 BASE-T, 1 Gbit/s

Telephony / DECT

- DECT base station for up to 6 cordless telephones, 10 FRITZ!DECT 200/210 smart plugs, 10 FRITZ!DECT 440/400 switches, 12 FRITZ!DECT 300/301/ Comet DECT radiator controls, 10 smart home devices from third-party manufacturers with HAN FUN
- Support for SIPTLS and SRTP
- SIP ALG
- Port for connecting answering machine or fax
- 5 integrated answering machines featuring voice-to-mail
- Comprehensive telephony functions such as call diversion, internal calls, three-way call, call transfer, call blocking, alarm, baby monitor, VIP calls, Do Not Disturb, and caller ID display
- Internet telephony SIP-compliant (RFC 3261)
- Registration of IP telephones (LAN / SIP-compliant)
- FRITZ!App Fon for Apple iPhone and Google Android
- Integrates iPhone and Android smartphones into the home network via Wi-Fi and enables landline and internet telephony

DECT Wi-Fi 6 1 x Phone 1 x gigabit WAN 3 x gigabit LAN 1 x USB

Network

- IR-069 (TR-069/104/140) support including documentation of the data model in accordance with the Broadband Forum TR-106
- TR-369 support 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, VoIP, 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 backward compatible)
- DNSSec and eDNS0 support

FRITZ!OS

- Offers a clear, browser-based and intuitive user interface
- User interface protected by device-unique preconfigured password
- Sensitive user settings protected by 2FA, including support for authenticator apps
- Multilingual user interface
- Secure remote access to your FRITZ!Box with MyFRITZ!
- Convenient features like parental controls, push service, cloud contacts, online storage
- Wake on LAN over the internet
- Wi-Fi 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
- Free updates add new features: https://en.avm.de/products/fritzos/
- Free FRITZ!Apps for telephony, smart home, remote access to the FRITZ!Box, and Wi-Fi optimization

Device Properties

Dimensions in mm (W x H x D):
208 x 150 x 37 mm

FRITZ!

Why?

- **Direct contacts in Sales, PreSales, and Engineering**
- **In-house hardware and software development in Berlin**
- **Training sessions with FRITZ! staff for engineering and support**
- **Real-time monitoring with the open TR-069 & TR-369 standards**
- **Technical support (also on site) and sales consultation**
- **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, telephony, smart home, and much more – combined in a single device.