



Technical specifications

Interfaces

Wireless router with integrated cable modem

Up to 6 gigabit/s compliant with the latest DOCSIS 3.1 transmission standard (backward compatible with EuroDOCSIS/DOCSIS 3.0)

1 x 2.5 gigabit LAN ports

3 x 1 gigabit LAN ports

Wi-Fi 6 (802.11ax) up to 4800 Mbit/s (5 GHz)

4 x 4 Wi-Fi 6 with Multi-User MIMO

2 x USB 3.0 ports for printers and storage media

Integrated DECT base station for up to six cordless phones

2 x a/b ports (TAE/RJ11) for analog phones, answering machines and fax

and 1200 Mbit/s (2.4 GHz)

Internet

Internet via cable on DOCSIS 3.1/EuroDOCSIS 3.0 cable connections

High-performance wireless router with firewall/NAT, DHCP server, DynDNS client, UPnP

Supports IPv6

Full-band capture tuner

Stateful Packet Inspection Firewall with port sharing

Secure remote access via the internet with VPN (IPSec)

Wi-Fi

4 x 4 Wi-Fi 6 with Multi-User MIMO

Wi-Fi networks compliant with 802.11ax (up to 4800 Mbit/s gross; 5 GHz and up to 1200 Mbit/s gross, 2.4 GHz)

Wi-Fi 6 for simultaneous operation in the 2.4 and 5 GHz bands

Compatible with Wireless 802.11ac, n, g and a

Extends your home network with Mesh Wi-Fi – simply combine two or more wireless access points into one intelligent system (FRITZ!OS 6.90 or later)

AVM Stick & Surf: automatic security for cable-free surfing

Wi-Fi Protected Setup (WPS)

Wi-Fi guest access – secure surfing for friends and visitors

Wi-Fi auto channel: Automated search for Wi-Fi channel free of interference

Wi-Fi Eco for optimum performance at minimum power consumption

Integrates iPhones and Android smartphones into the home network via Wi-Fi

Secure upon delivery with WPA2 encryption, WPA3/2 transition mode is also available

Telephony

Telephone system with DECT base station for up to six cordless telephones

Voice transmission encrypted upon delivery

2 a/b ports for connecting analog phones, answering machines, and fax

Supports HD telephony for natural and clear sound

DECT Eco: Frequency channel switches off for maximum ergonomics

Five integrated answering machines including email forwarding (voice-to-mail)

Fax function including email forwarding (fax-to-mail)

Call diversion, internal calls (intercom), three-way conferencing, call transfer

Call blocking, alarm, baby monitor, VIP calls and Do not Disturb

Internet telephony SIP-compliant in accordance with RFC 3261

Register IP telephones (LAN/Wi-Fi) SIP-compliant

FRITZ!App Fon for landline calls via your smartphone

Home network convenience

Media server makes music, pictures and videos available to devices in the home network (SMB, FTP, UPnP AV)

Integrated tuner for streaming TV signal in the home network

Parental controls, push service, cloud contacts,

Secure access to your own FRITZ!Box from anywhere with MyFRITZ!

FRITZ!NAS – simple, browser-based access to all files in the network, wherever they are stored

Powerful processor: networked applications such as IPTV, video on demand and music streaming

online storage

Wi-Fi guest access – secure surfing for friends and visitors (Wi-Fi/LAN)

Sharing of existing internet connection via LAN or Wi-Fi

Wake on LAN over the internet

FRITZ!OS

"fritz.box": multi-language user interface, for intuitive operation via Web browser

User interface optimized for smartphones and tablets (responsive design)

Free updates for new functions and security

Advanced view for special configuration options, help function with full-text search

Handy FRITZ!Apps for your smartphone: MyFRITZ!App for FRITZ! convenience on the go, the clever Wi-Fi helper FRITZ!App WLAN and

Smart Home features integrated in the user interface

Smart Home support for DECT ULE/HAN FUN devices

Smart Home devices can be switched manually and automatically both in the home network and from the Internet

FRITZ!App Smart Home
for intuitive control of
your FRITZ! Smart
Home

Package contents

FRITZ!Box 6690 Cable
Power adapter with 1.5
m long cable
1.5 meter-long coaxial
cable

1.5 meter-long LAN
cable
Installation guide

Device properties

Dimensions (W x H x
D): 85 x 209 x 273 mm
Average power
consumption: 11 – 14
W

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