FRITZ!Box 6670

Next generation performance – the cable FRITZ!Box with Wi-Fi 7

The FRITZ!Box 6670 Cable sets new standards for cable connections. Equipped with innovative Wi-Fi 7, the FRITZ!Box 6670 offers excellent Wi-Fi speeds.

Thanks to integrated DOCSIS 3.1 support, the FRITZ!Box 6670 Cable delivers speeds of up to 6 Gbps on the cable connection. With a 2.5-gigabit LAN port and additional 1-gigabit LAN ports, the FRITZ!Box 6670 Cable is also ideal for demanding network environments.

Through Zigbee integration, smart home devices can now be seamlessly connected to the home network and controlled via the intuitive FRITZ!OS operating system. Regular updates and the highest security standards ensure reliable and secure operation.
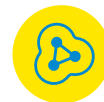
Product highlights

- Integrated modem for cable connection with DOCSIS 3.1 access
- Innovative Wi-Fi 7: High-speed Wi-Fi up to 2880 Mbit/s + 688 Mbit/s
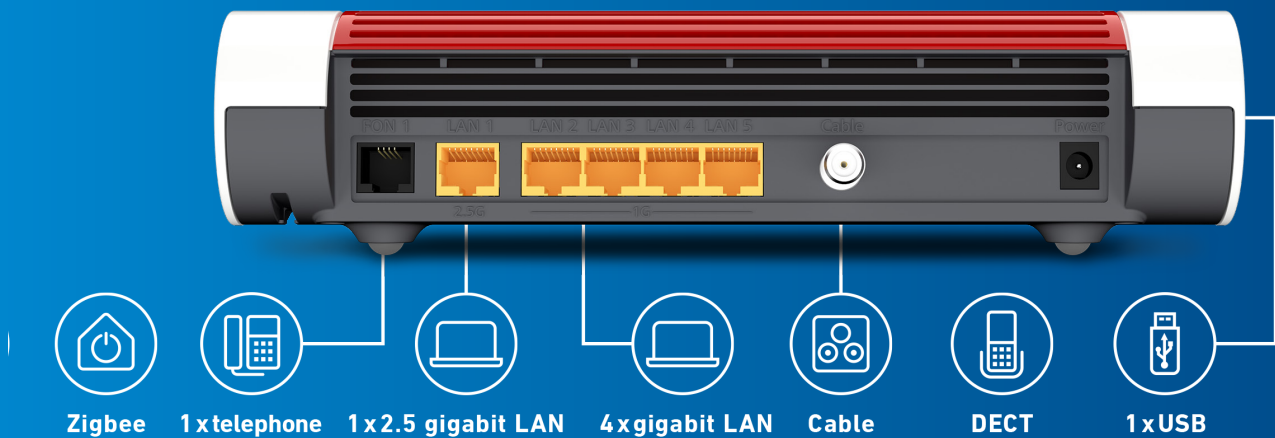- DECT ULE and Zigbee integrated for smart home
- Wi-Fi Mesh – Intelligent Wi-Fi system for the home network
- FRITZ!OS: Media server, NAS, MyFRITZ!, auto update

Technical specifications

Zigbee **1 x telephone** **1 x 2.5 gigabit LAN** **4 x gigabit LAN** **Cable** **DECT** **1 x USB**

Interfaces
- 1 x cable internet access via F-type connector 75 Ω
- Wi-Fi 7 on 2.4 and 5 GHz simultaneously
- 1 x 2.5 gigabit LAN, 4 x 1 gigabit LAN
- 1 x a/b port for analog phones, fax, and answering machine
- DECT base station for up to 6 cordless telephones
- Smart home applications via DECT ULE and Zigbee
- 1 x USB 2.0 port for printers and storage in the network
- VPN support (IPSec and WireGuard) + VPN passthrough

Cable/Routing
- RF-Parameter - Receive direction: DOCSIS 3.1 | DOCSIS 3.0
- Channel bonding: 2 OFDM channels | up to 32 SC-QAM channels
- Modulation: 16-4096 QAM | 64-256 QAM
- Channel bandwidth: 24-192 MHz | 8 MHz
- Frequenzy range: 108 -1218 MHz, 258-1218 MHz (configurable diplexer | 108-1002 MHz
- RF-Parameter - Send direction: DOCSIS 3.1 | DOCSIS 3.0
- Channel bonding: up to 2 OFDM channels | up to 8 SC-QAM channels
- Modulation: BPSK, QPSK, 4 QAM - 4096 QAM | QPSK, 8-64 QAM
- Channel bandwidth: 6.4 - 96 MHz | 200 kHz, 400 kHz, 800 kHz, 1.6 MHz, 3.2 MHz, 6.4 MHz
- Frequenzy range: 5- 85 MHz/ 5-204 MHz (configurable diplexer | 5-85 MHz

Wi-Fi
- Wi-Fi networks according to Wi-Fi 7 / IEEE 802.11be (2880 Mbit/s and 688 Mbit/s)
- Backward compatible with Wi-Fi 802.11g/b/a/n/ac/ax
- Dual-band, simultaneous Wi-Fi on 2.4 GHz and 5 GHz
- Support for Multi-Link Operation (MLO) and Puncturing
- Support for AVM Mesh Wi-Fi: https://en.avm.de/faqs/mesh-with-fritz/
- WPA3 and WPA2 encryption for full backward compatibility
- "WLAN" button (manual Wi-Fi on/off)
- Wi-Fi Protected Setup (WPS)
- Guest Wi-Fi – secure browsing for friends and visitors
- Wi-Fi Eco for optimal performance with minimal power consumption

LAN
- LAN 1: 2.5 gigabit Ethernet, 10/100/1000/2500 NBase-T
- LAN 2-5: 1 gigabit Ethernet, 10/100/1000 Base-T

Telephony / DEC
- DECT base station for up to 6 cordless phones
- Encrypted voice transmission enabled by default
- Supports HD telephony for natural sound quality
- 5 integrated answering machines, including voice-to-mail
- Fax function with email forwarding (fax-to-mail)
- Extensive telephony functions such as call forwarding, internal calls, three-way call, call diversion, call blocking, alarm, baby monitor, VIP calls, and call blocking
- Internet telephony SIP-compliant in accordance with RFC 3261
- Registration of IP phones (LAN/Wi-Fi) according to SIP standard
- FRITZ!App Fon for Apple iOS and Google Android
- DECT Eco: Deactivate DECT radio network for maximum ergonomics

Technical specifications

Wi-Fi 7

Network

- TR-069 (TR-069/104/140) support, including documentation of the data model according to TR-106 Broadband Forum
- TR-369 support for real-time monitoring with multi-controller support, including rights management, speed test via iPerf, and TR-471 (platform-dependent)
- 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 DHCP
- 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 the ISP (internet service Provider)
- ACS URL via DHCP option 43
- IGMP proxy (v3 and backward compatible)
- DNSSec and eDNS0 support
- Stateful packet inspection firewall with port release for secure browsing

FRITZ!OS

- Offers a clear browser-based user interface that's easy to use.
- User interface protected by pre-configured and device-specific 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 push service, cloud contacts, online storage
- Parental controls with time budget, browser-based user interface that's easy to use.
- Wake on LAN over the internet
- Wi-Fi calls in the home network with iPhone and Android smartphones
- FRITZ!Box interface specially designed for smartphones and tablets
- Home network overview, help function 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
- Security assistant with diagnostic tool and auto-update

Dimensions

Dimensions in mm (W x H x D):
approx. 254 x 191 x 63 mm

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Why AVM?

Direct contacts in Sales, PreSales, and Engineering

Training sessions with AVM 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-lasting 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.

Cable Expertise

With our cable development in Berlin, you benefit from direct access to key project management and development contacts. Many cable features, including packet processing optimizations and energy-saving mechanisms, are in-house developments. The FRITZ!Box 6670 Cable supports basic PacketCable 2.0 functionality along with vendor-specific MIB extensions, ensuring compatibility with diverse network management systems.

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, because our products are also available commercially. 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 integrates a router and modem as a combined device and is connected directly with the internet. This saves electricity, ensures easy and convenient operation, and simplifies device management.
Internet, Wi-Fi, streaming, telephony, smart home, and much more – all combined in a single device.