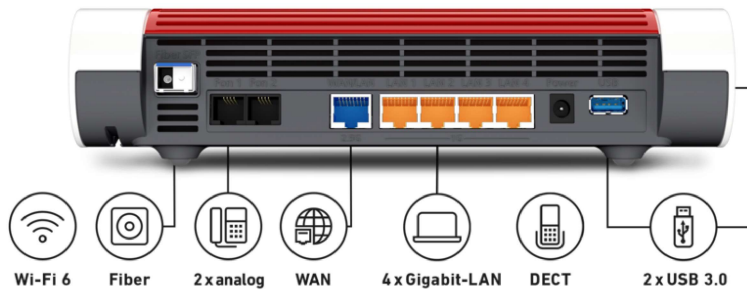




## FRITZ!Box 5590 Fiber Technical specifications

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# Technical specifications

## Interfaces

Wireless router with an SFP port for a FRITZ!SFP fiber optic module (comes with AON and GPON)

1 x 2.5 gigabit WAN port, can also be used as a 2.5 gigabit LAN port (IEEE 802.3bz standard, NBASE-T)

4 x gigabit LAN ports

Wi-Fi 6 (5 GHz, 2.4 GHz)

Integrated DECT base station for up to six cordless phones

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

2 x USB 3.0 ports for printers and storage devices in the network

## Internet

Fiber optics router with firewall/NAT, DHCP server, DynDNS client, UPnP AV

Supports IPv6

Stateful Packet Inspection Firewall with port sharing for secure web surfing

Suitable for gigabit-capable passive optical networks (GPON) and active optical networks (AON)

Router can also be used over an existing internet connection via LAN or with media converter on the SFP module

Secure remote access via the internet with VPN (IPSec)

Use of existing internet connections via LAN

## Fiber optics

### FRITZ!SFP AON

ITU-T G.652; IEEE 802.3ah-2004 1000BASE-BX10

LC/APC 8°

Wavelength: TX 1310 nm, RX 1480 to 1580 nm

Full duplex transmission

Transmitter power: -9 to -3 dBm

Reception range: -3 to -23 dBm

Range: 10 km

Support for SFF-8472

Class 1 laser

### FRITZ!SFP GPON

Suitable for ITU-T G.984.2/984.5 (GPON)

LC/APC 8°

Wavelength: TX 1310 nm, RX 1490 nm (with filter)

Suitable for rogue detection

Transmitter power: 0.5 to 5 dBm

Reception range: -3 to -28 dBm

Range: 20 km

Support for SFF-8472

Class 1 laser

### FRITZ!SFP XGS-PON

The FRITZ!SFP XGS-PON module is available

exclusively for FRITZ!Box 5590 Fiber provider models. This means the FRITZ!Box 5590 Fiber can also be operated on XGS-PON connections.

ITU-T G.9807 (10-Gigabit-capable symmetric passive optical network)

SC UPC

Wavelength: TX 1270 nm, RX 1577 nm

Full-duplex transmission

Transmitter power: +5 to +9 dBm

Reception range: -8 to -29 dBm

Range: 20 km

Support for SFF-8472

Class 1 laser

## Wi-Fi

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

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

Data rates of up to 2,400 Mbit/s (5 GHz) and 1,200 Mbit/s (2.4 GHz)

Compatible with Wireless 802.11ac (Wi-

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

Fi 5), n (Wi-Fi 4), g and a

Extends your home network with Mesh Wi-Fi Find out more here.

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

minimum power consumption

Wi-Fi can be turned on/off using "WLAN" button

## Telephony

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

Voice transmission encrypted upon delivery

Port for an analog phone, answering machine or 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

Media server makes

Parental controls, push

## Home network convenience

music, pictures and videos available to devices in the home network (DLNA, UPnP AV)

MyFRITZ! - access your own FRITZ!Box safely, no matter where you are

FRITZ!NAS: memory shared by all data in the home network

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

service, cloud contacts, online storage

Share existing internet connection over LAN

Wake on LAN via 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!

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

convenience on the go,  
the clever Wi-Fi helper  
FRITZ!App WLAN and  
FRITZ!App Smart Home  
for intuitive control of  
your FRITZ! Smart  
Home

## **Package contents**

FRITZ!Box 5590 Fiber  
1 x FRITZ!SFP AON  
1 x FRITZ!SFP GPON  
4-meter fiber optic  
cable (LC/APC >  
LC/APC)

Power supply unit  
1.5 meter-long LAN  
cable  
Quick guide

## **Device properties**

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

## **Article number**

20002981

## **Other models**

The FRITZ!Box 5590 Fiber is also available from providers. The provider models come with the appropriate FRITZ!SFP module, which supports the connection technology and speed.

FRITZ!Box 5590 Fiber  
with FRITZ!SFP AON  
(Article no. 20003013)

FRITZ!Box 5590 Fiber  
with FRITZ!SFP GPON  
(Article no. 20003014)

FRITZ!Box 5590 Fiber  
with FRITZ!SFP XGS-  
PON (Article no.  
20003015)