Wi-Fi 6    Fiber    1 x analog    1 x 2,5 Gigabit-LAN    2 x Gigabit-LAN    DECT

# FRITZ!Box 5530 Fiber

## Interfaces

Wireless router with an SFP port for a FRITZ!SFP fiber optic module (AON, GPON or XGS-PON, depending on edition)

1 x 2.5 gigabit LAN port (IEEE 802.3bz standard, NBASE-T)

2 x 1 gigabit LAN ports

Wi-Fi 6 (5 GHz, 2.4 GHz)

Integrated DECT base station for up to six cordless telephones

1 a/b port (TAE/RJ11) for analog phones, answering machines and fax

## Internet

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

Supports IPv6

Stateful Packet Inspection Firewall

Suitable for gigabit-capable passive optical networks (GPON), active optical networks (AON) and 10 Gigabit capable symmetric passive optical networks (XGS-PON)

Router operation also over an existing internet connection via LAN or with a media converter on the SFP module

with port sharing for secure web surfing

Secure remote access, LAN-to-LAN linkup and dial-in to the company network with VPN (WireGuard and IPSec)

# Fiber optics

There are different FRITZ!SFPs included in delivery, depending on the edition of the FRITZ!Box 5530 Fiber. You can find the technical specifications of each FRITZ!SFP module here.

## 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

## 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

Range: 10 km

Support for SFF-8472

Class 1 laser

## FRITZ!SFP XGS-PON

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

2 x 2 Wi-Fi 6 with MIMO

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

Data rates of up to 2400 Mbit/s (5 GHz) and 600 Mbit/s (2.4 GHz)

Wi-Fi Protected Setup (WPS)

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

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

Compatible with Wireless 802.11ac (Wi-Fi 5), n (Wi-Fi 4), g and a

Extends your home network with Mesh Wi-Fi

Secure upon delivery with WPA2 encryption, with WPA3 also available

Wi-Fi Eco for optimum performance at minimum power consumption

Uses Wi-Fi to integrate iPhones and Android smartphones into the home network

## 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 sound

DECT Eco: Frequency channel switches off for maximum comfort

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

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

Call diversion, internal calls, 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 phones (LAN/Wi-Fi), compliant with the Session Initiation Protocol (SIP)

FRITZ!App Fon for landline calls via your smartphone

## Home network convenience

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

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

Parental controls, push service, cloud contacts, online storage

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

Share existing internet connection over LAN

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

Handy FRITZ!Apps for your smartphone: MyFRITZ!App for FRITZ! 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

Help function with full-text search

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

## Package contents

FRITZ!Box 5530 Fiber

FRITZ!SFP for AON, GPON or XGS-PON (depending on edition)

4-meter fiber optic cable (LC/APC > LC/APC) (depending on edition)

Power adapter with 1.5m-long cable

1.5 meter-long LAN cable

Quick guide

## Device properties

Dimensions (W x D x H): 208 x 150 x 43 mm

Average power consumption: 9 - 10 W

## Article number

FRITZ!Box 5530 Fiber with FRITZ!SFP AON (article number 20002937)

FRITZ!Box 5530 Fiber with FRITZ!SFP GPON (article number 20002936)

FRITZ!Box 5530 Fiber with FRITZ!SFP XGS-PON (article number 20002959)

FRITZ!Box 5530 Fiber with FRITZ!SFP GPON and FRITZ!SFP AON (article number 20002960, available only in Germany)