FRITZ!Box DSL/Fiber 7-90



Flexible DSL and fiber connectivity

The FRITZ!Box DSL/Fiber 7-90 combines a powerful DSL modem and integrated GPON/AON fiber connectivity in one device. It is the ideal solution for a smooth transition from DSL to fiber.

Tri-band Wi-Fi 7 delivers combined wireless data rates of up to 12.2 Gbit/s across the 2.4 GHz, 5 GHz, and 6 GHz bands. Low latency and high throughput provide excellent performance for demanding home-network applications.

Two 2.5-gigabit ports and two gigabit LAN ports enable fast wired networking. DECT ULE and Zigbee make the FRITZ!Box a versatile Smart Home hub, while telephony, Mesh Wi-Fi, VPN, guest access, and USB round out the feature set.

Product highlights

- **Dual-WAN functionality with DSL and GPON – ideal for the transition from DSL to fiber**
- **Tri-band Wi-Fi 7 with 6 GHz support and up to 12.2 Gbit/s**
- **Smart Home functions with DECT ULE and Zigbee**
- **2 x 2.5-gigabit ports plus 2 x gigabit LAN**
- **Mesh Wi-Fi, telephony, NAS, VPN, MyFRITZ!, and free updates**



Technical specifications

Ports and Interfaces

- High-end DSL and fiber router with tri-band Wi-Fi 7
- Integrated DSL modem for ADSL2+, VDSL2, vectoring, profile 30a, and supervectoring 35b
- Integrated fiber interface for GPON and AON
- 2.5-gigabit WAN/LAN port for fiber ONT or LAN operation
- 1 x 2.5-gigabit LAN and 2 x gigabit LAN
- 1 x a/b port for analog telephones and fax
- DECT base station for up to 6 handsets
- Smart Home hub via DECT ULE and Zigbee
- 1 x USB 2.0 for printers and storage media

Wi-Fi

- Tri-band Wi-Fi 7 access point, backward compatible with IEEE 802.11a/g/n/ac/ax/be
- 6 GHz: up to 5760 Mbit/s (2 x 2, 320 MHz)
- 5 GHz: up to 5760 Mbit/s (4 x 4, 160 MHz)
- 2.4 GHz: up to 688 Mbit/s (2 x 2, 40 MHz)
- Combined gross data rate of up to 12.2 Gbit/s
- Supports Multi-Link Operation (MLO) and puncturing
- Wi-Fi encryption with WPA3/WPA2
- Mesh Wi-Fi – combine several FRITZ! products into one intelligent network
- Wi-Fi Protected Setup (WPS), schedule, and secure guest access

WAN/LAN

- 1 x 2.5-gigabit WAN/LAN port (blue), switchable to LAN
- 1 x 2.5-gigabit LAN port
- 2 x gigabit LAN ports (10/100/1000 BASE-T)

DSL

- ADSL2+, VDSL2, vectoring (G.Vector), profile 30a, and supervectoring profile 35b
- Annex A/B multi-annex support

Fiber

- LC/APC
- Singlemode Fiber
- Wavelength: TX 1310 nm, RX 1490 nm
- Class 1 Laser

GPON

- ITU-T G.984.2/984.5 (ClassB+)
- Supports rogue ONU detection
- Transmitter power: 0.5 to 5 dBm
- Reception Range: -27 to -8 dBm (class B+), 20 km range

AON

- IEEE 802.3ah-2004 1000BASE-BX10
- Transmitter power: -9 to -3 dBm
- Reception Range: -19.5 to -3 dBm, 10 km range



DSL · Fiber · Telefon · 1 x WAN/LAN 2,5 GBit/s · 1 x LAN 2,5 GBit/s · 2 x LAN 1 GBit/s · USB 2.0 · Wi-Fi 7 · DECT · Zigbee

Telephony / DECT

- Telephone system for IP-based connections
- Integrated DECT base station for up to 6 cordless phones
- 5 integrated answering machines featuring voice-to-mail
- Fax function with fax-to-mail
- Call diversion, internal calls, conferences, call transfer, call blocking, alarm, baby monitor, VIP calls, and caller ID display
- Registration of IP telephones via LAN
- Internet telephony SIP-compliant in accordance with RFC 3261
- Registration of IP phones (LAN / SIP-compliant)
- FRITZ!App Fon for Apple iOS and Google Android

Network

- SPI firewall and DoS protection
- IPv6 and IPv4 dual stack including DS Lite
- 802.1Q support for WAN connections
- Exposed host and port forwarding
- VPN support with IPSec and WireGuard
- No vendor lock-in: platform and data remain with the ISP
- DNSSEC and encrypted DNS support

FRITZ!OS

- Clear, browser-based user interface that is easy to use
- Device-unique preconfigured password and 2FA support
- Multilingual user interface
- Secure remote access with MyFRITZ!
- Parental controls, push service, cloud contacts, and online storage
- Wake on LAN over the internet
- Wi-Fi calls in the home network with iPhones and Android smartphones
- Interface specially designed for smartphones and tablets
- Home-network overview and searchable help
- Easy setup with the MyFRITZ!App for iOS and Android, including an integrated health check; standard browser-based setup also available
- Free updates with new features and security improvements
- Free FRITZ!Apps for telephony, Smart Home, remote access, and Wi-Fi optimization

Installation

- Innovative cable management for flexible placement
- Desktop stand and optional wall mounting
- Wall-mount drilling pattern compatible with FRITZ!Box 7590/7690
- Can also be used behind a fiber optic or cable modem

FRITZ!

Why?

- **Direct contacts in Sales, PreSales, and Engineering**
- **Training sessions with FRITZ! 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 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.

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