



FRITZ!Box 6850 LTE

Technical specifications



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Interfaces

Mini SIM slot (LTE 4G) category 4 modem)

IP-based telephony

4 x gigabit LAN ports

Wireless access point compliant with IEEE 802.11ac, n, g, b, a

1 x high-speed USB port for storage devices and printers

Integrated DECT base station for up to six cordless telephones

1 a/b port (either TAE or RJ11) for an analog telephone, answering machine or fax

LTE (4G)

Wireless router with integrated LTE (4G) category 4 modem for FDD band 1 (2.1 GHz), band 3 (1.8 GHz), band 5 (850 MHz), band 7 (2.6 GHz), band 8 (900 MHz), band 20 (800 MHz) and band 28 (700 MHz)

Also for TDD band 38 (2.6 GHz), band 40 (2.3 GHz) and band 41 (2.5 GHz)

Internet access also via UMTS/HSPA+ (3G) with up to 42 Mbit/s

Option for connecting two outdoor antennas over SMA connectors

Internet

4G LTE router with firewall/NAT, DHCP server, DynDNS client, UPnP AV

Optimized for streaming and Internet TV e.g. Disney+, Netflix etc.

Supports IPv6

Stateful Packet Inspection Firewall with port sharing

Secure remote access over the internet with VPN (IPSec)

Wi-Fi

Wi-Fi 5 (up to 866 Mbit/s gross, 5 GHz) and 4 (up to 400 Mbit/s gross, 2.4 GHz)

Compatible with Wireless 802.11g, b and a

Extends your home network with Mesh Wi-Fi – simply combine two or more wireless access points into one intelligent system. Find out more here

Dual Wi-Fi: Concurrent use of the 5-GHz and 2.4-GHz band

WLAN button (switch Wi-Fi on/off manually)

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

Green AP mode for optimum performance at minimum power consumption

Telephony

Secure upon delivery with WPA2 encryption

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

Telephone system for IP-based connections

Integrated DECT base station for up to six cordless telephones

Voice transmission encrypted upon delivery

1 a/b port (either TAE or RJ11) for an analog telephone, answering machine or fax

Supports HD telephony for natural sound

DECT Eco: Radio network switches off for maximum ergonomics

Call list, number blocking, quick-dial numbers, extensions

Dialing rules to tailor use of specific numbers

Call diversion, internal calls, three-way conferencing, call transfer

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

Support for door intercom systems

Internet telephony SIP-compliant in accordance with RFC 3261

Registration of IP telephones (LAN/Wi-Fi) SIP-compliant

FRITZ!App WLAN for iOS 4 or later, Android 2.1 or later

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

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

Manage telephone contacts locally or online (Google, Apple etc.)

Home network convenience

Media server makes music, pictures and movies available to devices in the home network (DLNA/UPnP AV)

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

Networked applications such as Internet TV, video on demand and streaming

Guest access: share your internet connection over LAN or Wi-Fi

Wake on LAN over the internet

Supports devices compliant with DLNA

Also supports online storage, web radio and podcasts

Sharing data with friends both simple and secure

Parental controls, push service,
cloud contacts, online storage

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

FRITZ!Apps for connecting to Wi-
Fi, telephone calls in the home
network, file access from on the go
and more (Android and iOS)

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 6850 LTE

Power adapter

External LTE antennas

1.5 meter-long LAN cable

Quick guide

Device Properties

Dimensions (W x H x D): 208 x 150
x 37 mm

Wall mount or place on any
surface e.g. a table or shelf

Average power consumption: 6
watts