

FRITZ!Box 6840 LTE

High-Speed Internet and Telephone over the LTE Mobile Radio Network

The FRITZ!Box 6840 LTE is the first to use the future LTE mobile technology standard for fast Internet connections between computers and networks, offering an ideal alternative to conventional DSL and cable Internet. With download rates of up to 100 Mbit/s in optimum radio environments, high-speed Internet is now possible even where no comprehensive DSL coverage is available – for instance, in rural areas.

FRITZ!Box 6840 LTE offers a great variety of applications. The new WLAN standard 802.11n (WLAN N) with up to 300 Mbit/s provides maximum speed and range in wireless surfing.

MIMO multi-antenna technology makes radio transmission more flexible. It even allows the user to choose between the 2.4-GHz or the much less frequented 5-GHz band (dual band), depending on the load of the wireless network. And thanks to the integration of iPhones and Android smartphones over WLAN, top-quality VoIP telephone calls are possible from your mobile phone. In addition to jacks for analog telephones, an integrated DECT base station for up to six cordless phones is also at your disposal.

The powerful processor makes the FRITZ!Box 6840 LTE the ideal platform for networked applications like video on demand and media streaming. A high-speed USB 2.0 port, and NAS functionality expanded to include a media server and integrated online storage, open up new potential applications in the network. This means that even when the computer is switched off contents like videos, music and photographs are available to the entire network for playback on devices that support UPnP-AV (like HD-TVs and stereo systems).

FRITZ!Box 6840 is equipped with a comprehensive software package, including a firewall, child protection, fax reception, VPN, WLAN night service, and WLAN auto channel.

Highlights at a glance:

- Fast mobile Internet thanks to an integrated LTE category 3 modem
- WLAN N router for up to 300 Mbit/s WLAN N in either the 2.4-GHz or 5-GHz band (dual band)
- Telephone system with answering machine and fax reception
- DECT base station for up to 6 cordless telephones
- Media server for music, images, and video in the network
- USB 2.0 port for printers and storage devices in the network
- WLAN guest access – secure surfing for friends and visitors
- Integrates iPhone and Android smartphones wirelessly in the home network
- Simple setup over browser interface

The FRITZ!Box 6840 LTE has won numerous awards:

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INNOVATIONSPREIS-IT KATEGORIESIEGER 2011 innovative mittelstand TELEKOMMUNIKATION

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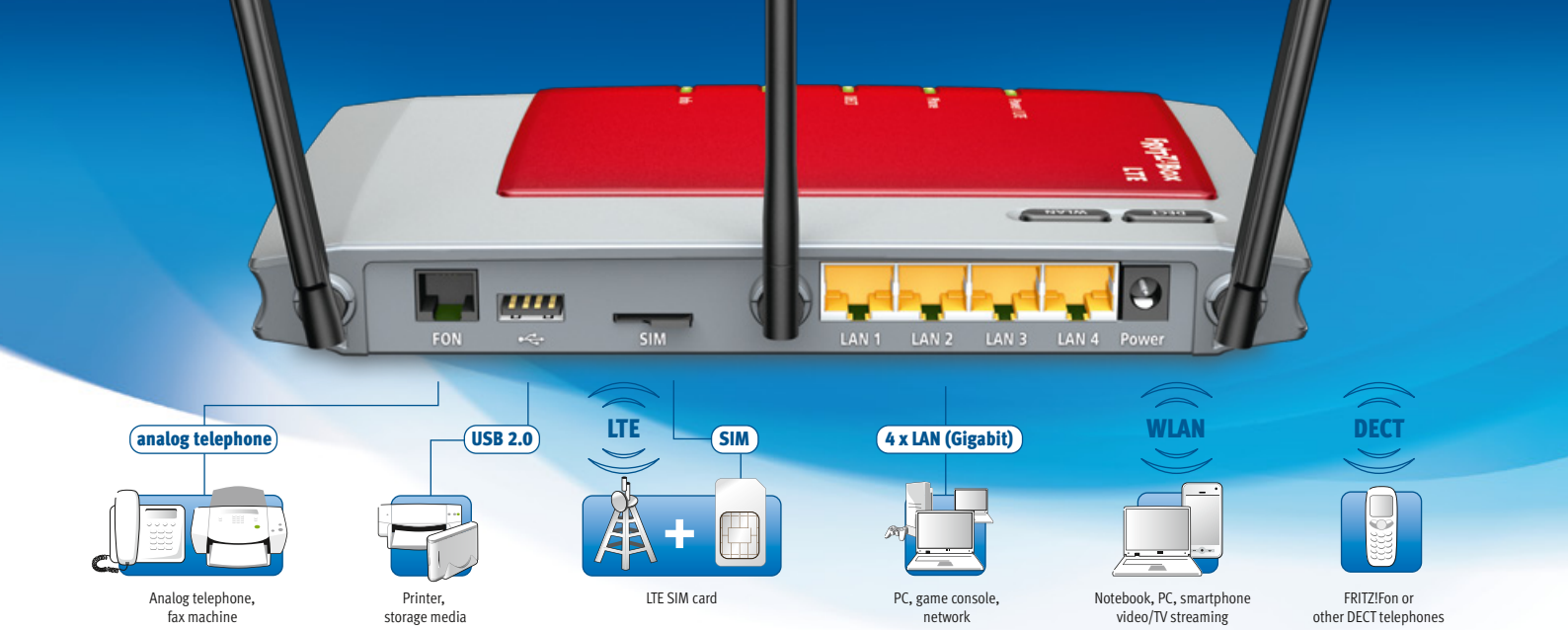

Technical Features

LTE router functions

- Integrates LTE category 3 modem (3GPP release 8)
- Rates of up to 100 Mbit/s for downloads and up to 50 Mbit/s for uploads
- Dual-band support: band 20 (791 - 862 MHz, FDD, "digital dividend") and band 7 (2500 – 2690 MHz, FDD)
- Supports 5, 10 and 20-MHz channels
- MIMO reception technology via two external antennas
- Option for connecting two outdoor antennas over SMA connectors

Router functions

- High-performance WLAN router with firewall/NAT, DHCP server, DynDNS client, UPnP
- Setup in web browser, independent of operating system, allows use with Windows, Mac OS and Linux computers
- Stateful Packet Inspection firewall with port forwarding for secure web surfing
- Secure remote access to the FRITZ!Box network with VPN (IPSec)

Telephony functions

- Telephone system with integrated DECT base station for up to 6 cordless telephones
- Port for analog telephone, answering machine or fax machine
- DECT ex works through encrypted voice transmission
- VoIP telephony even when the PC is switched off
- Supports HD telephony for natural sound
- Bandwidth management: calls and surfing in optimum quality
- DECT full eco mode reduces power consumption and transmitter strength
- 5 integrated answering machines featuring voice-to-mail
- Fax reception with e-mail forwarding (fax-to-mail)
- Comprehensive telecommunications functions like call diversion, internal calls, three-party conferences, call transfer, call blocking, alarm, VIP calls, do not disturb and caller ID display
- Internet telephony SIP-compliant in accordance with RFC 3261
- Registration of IP telephones (LAN/WLAN) SIP-compliant
- Telephony app (WLAN) for Apple iPhone with iOS 4 or higher, Google Android 2.1 or higher

WLAN functions

- WLAN radio networks according to 802.11n (up to 300 Mbit/s* per frequency band), downward compatible to WLAN 802.11g, b and a
- WLAN N for use in either the 2.4-GHz or 5-GHz band (dual band)
- Preconfigured WLAN encryption with WPA/WPA2 mixed mode, WPA2, WPA, WEP-64 or WEP-128
- AVM Stick & Surf: automatic security for wireless surfing
- WLAN button (to switch WLAN on/off manually)
- Wi-Fi Protected Setup (WPS) for especially easy and safe WLAN connections at the touch of a button or by entering a PIN
- WLAN guest access – secure surfing for friends and visitors
- Integrates iPhone and Android smartphones wirelessly in the home network
- Support for the Wireless Distributed System (WDS) for extending your network's range
- WLAN eco mode reduces radio signal power

Media functions

- FRITZ!NAS – simple, browser-based access to all files in the network, no matter where they are stored
- Media server distributes music, photographs, and video (SMB, FTP, UPnP-AV)
- Powerful processor for networked applications like video on demand and music streaming

Connection options

- Integration into the LTE mobile radio network by means of an LTE SIM card
- 4 x Ethernet (10/100/1000 Base-T) for connecting and networking PCs and game consoles
- Port for one analog telephone, fax or answering machine
- USB 2.0 port for printers and storage devices in the network and for Stick & Surf

WLAN N

FRITZ!Box 6840 LTE allows WLAN connections with the 802.11n radio standard in the 2.4-GHz or the 5-GHz band, which is subject to much less interference. The implementation of multiple antennas with MIMO (Multiple Input Multiple Output) increases the range, quality and data throughput of the WLAN connection. The FRITZ!Box 6840 LTE is secure straight out of the box thanks to its preconfigured, individual WPA/WPA2 encryption.

Save energy with FRITZ!

With its eco mode, the FRITZ!Box 6840 LTE automatically adjusts power output to the traffic volume, ensuring optimal power consumption. Processor power is minimized in standby mode and unused interfaces are switched off. Thanks to the WLAN night service, you can set the duration of power-saving operation or change it with a switch.

More possibilities with USB 2.0

The high-speed USB 2.0 port makes new applications possible in the network. Photographs, music and videos from the storage media connected to the FRITZ!Box can be played back on receivers that support UPnP-AV (HD-TVs, stereo systems). A USB printer can be configured for use by the entire network.
Be it located on the Internet, on online storage , or USB storage – the integrated FRITZ!NAS web site (http://fritz.nas) offers a simple and convenient option to access all of your data on the FRITZ!Box. You can even make them accessible over the Internet.

System Requirements/Specifications

- For Internet access over the LTE mobile radio network: LTE SIM card
- On the LAN port (Ethernet, 10/100/1000 Base-T): PC, notebook, Mac, game consoles or other network devices
- For WLAN connection: WLAN client in accordance with IEEE 802.11n, g, b or a
- Device dimensions 210 x 155 x 25 mm, for mounting on table or wall
- Average power consumption: 6-8 W

Award-winning:

FRITZ! products have received over 400 awards and numerous recommendations from the IT press commending their user-friendliness, their wide range of applications as well as the high security standards they fulfill.

* Gross value. The user data rate that can actually be achieved is somewhat below the specified values.

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