

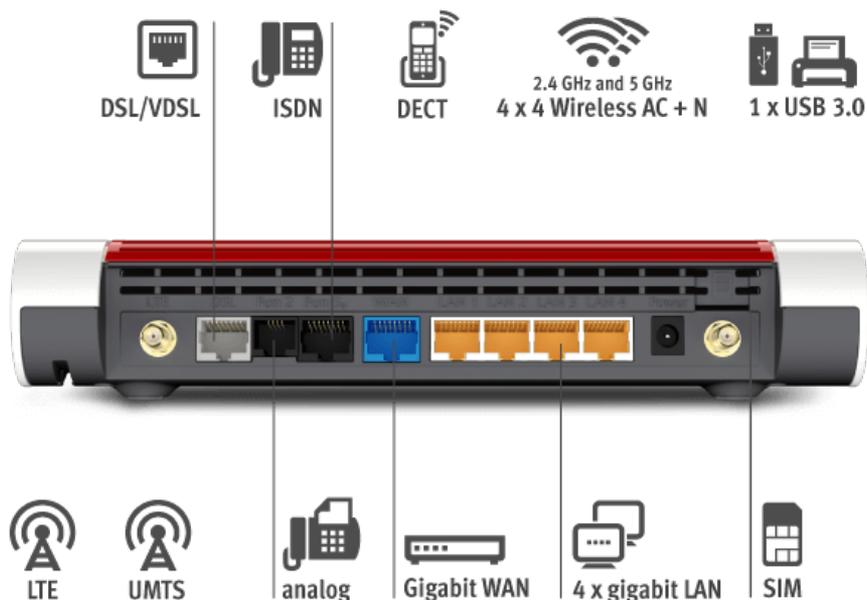


# FRITZ!Box 6890 LTE

## Technical specifications

### Interfaces

- Integration into the LTE broadband network with LTE-SIM card (mini SIM)
- Internet via LTE (4G) at speeds of up to 300 Mbit/s and up to 42 Mbit/s via UMTS (3G)
- IP-based, analog or ISDN landline
- Option for connecting two outdoor antennas over SMA connectors
- DSL with up to 300 Mbit/s with LTE fallback option
- 4 x gigabit Ethernet
- 1 x gigabit WAN
- 4 x 4 Wireless AC + N with Multi-User MIMO
- Wireless AC with up to 1733 Mbit/s (5 GHz)
- Wireless N with up to 800 Mbit/s (2.4 GHz)
- 1 x USB 3.0
- For up to 2 analog telephones, fax or answering machines
- DECT base station for up to 6 cordless telephones
- ISDN S<sub>0</sub> bus for ISDN telephones or ISDN telephone system



## Technical specifications

## LTE and DSL

- Category 6 LTE modem (FDD) with up to 300 Mbit/s on the Internet
- Via UMTS/HSPA (3G) up to 42 Mbit/s
- Multi-band support: 7 LTE and 2 UMTS frequencies (LTE: bands 1, 3, 7, 8, 20, 28 and 32; UMTS: bands 1 and 8)
- Option to connect outdoor antennas
- Integrated DSL modem for all VDSL or DSL lines up to 300 Mbit/s
- DSL operation with optional automatic fallback to the mobile network connection
- Compatible with Annex-J lines from Deutsche Telekom

## Internet

- LTE router with firewall/NAT, DHCP server, DynDNS client, UPnP
- Stateful Packet Inspection Firewall with port sharing for secure web surfing
- Supports the IPv4 and IPv6 web protocol
- Secure remote access over the Internet with VPN (IPSec)
- Parental controls with time budget, blacklist and whitelist
- Remote maintenance via https

## Wireless LAN

- Wireless AC (up to 1733 Mbit/s gross, 5 GHz) and N (up to 800 Mbit/s gross, 2.4 GHz)
- With Mesh WiFi you can combine several wireless access points into one intelligent system (FRITZ!OS 6.90 and later) Find out more at [en.avm.de/mesh](http://en.avm.de/mesh)
- Compatible with Wireless 802.11g, b and a
- MU-MIMO receiver technology (Multiple-User Multiple-In-Multiple-Out antenna technology)
- Secure ex works thanks to WPA2 encryption
- Wireless LAN can be turned on and off via button and connected telephones
- Wi-Fi Protected Setup (WPS) for safe wireless connections at the touch of a button or by entering a PIN
- Wireless guest access – secure surfing for friends and visitors
- Wireless network range extended through repeater function
- Wireless auto channel: Automated search for wireless LAN radio channel free of interference
- Green AP mode for optimum performance at minimum power consumption

## Telephony

- Telephone systems with DECT base station for up to 6 cordless telephones
- Analog or ISDN landline according to 1TR112/U-R2
- Voice transmission encrypted ex works
- ISDN S<sub>0</sub> bus for connecting ISDN telephones/ISDN telephone systems
- 2 a/b ports for connecting analog telephones, answering machines and fax
- Supports HD telephony for natural sound
- DECT Eco: Radio network switches off ergonomically
- Five integrated answering machines featuring voice-to-mail
- Manage telephone contacts locally or online (email providers)
- Fax function including e-mail forwarding (fax-to-mail)
- Call diversion, internal calls, three-party conferencing, call transfer
- Call blocks, alarm, baby monitor, VIP calls and Do not Disturb

- Internet telephony SIP-compliant in accordance with RFC 3261
- Registration of IP telephones (LAN/WiFi) SIP-compliant
- Telephony app (via wireless LAN) for Apple iPhone with iOS 4 or higher, Google Android 2.1 or higher

## Convenience for the home network

- Media server makes 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
- Platform for networked applications like IP TV, video on demand and media streaming, thanks to the powerful dual-core processor
- Parental controls, push service, cloud contacts, online storage
- Wireless guest access – secure surfing for friends and customers
- Wake on LAN over the Internet
- Supports devices compliant with DLNA
- Smart Home features for measuring and switching integrated in the user interface
- LEDs can be dimmed manually or depending on the brightness in the room

## FRITZ!OS

- "fritz.box": clearly laid out user interface, for intuitive operation via web browser
- User interface optimized for smartphones and tablets (responsive design) and available in six languages (DE, EN, ES, FR, IT and PL)
- Alignment aid for antennas to find the ideal location for the FRITZ!Box
- Free updates for new functions and security, auto-update upon request
- Advanced view for special configuration options, help function with full-text search
- FRITZ!Apps for file access from on the go (Android and iOS), easy connections to the WiFi network (Android), using smartphones as webcams (Android) and more
- Smart Home features integrated in the user interface
- Smart Home devices can be switched manually and automatically both in the home network and from the Internet

## Interface details

- Integration into the LTE broadband network with LTE-SIM card (mini SIM)
- Internet access via UMTS/HSPA+ (3G)
- 4 x gigabit Ethernet (10/100/1000 Base T, RJ45 port) for PC, game console, network
- 1 x gigabit WAN for connections on cable/DSL/fiber optic modems or to the network
- Wireless access point IEEE 802.11ac, n, g, b, a for PC, notebook, tablet, smartphone
- 1 x USB 3.0 port for printers and storage media
- DECT base station for up to 6 cordless telephones
- Internal S<sub>0</sub> bus to use ISDN phones or telephone systems on an IP-based connection
- 2 a/b ports for connecting analog telephones, answering machines and fax

## Package contents

- FRITZ!Box 6890 LTE
- External, screw-on mobile radio antennas (SMA)
- Power adapter with 1.5-meter cable

- 4-meter long DSL connecting cable
- 4.25-meter long DSL/Tel connecting cable
- 1.5 meter LAN cable
- Quick guide

## **Device properties**

- Dimensions (W x H x D): 250 x 48 x 184 mm
- Average power consumption: 9.5 W

## **Article number**

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