



# Fact sheet

FRITZ! Smart Home

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## The Smart Home explained

Smart Home, when the technology behind it is done right, makes life easier. Studies show that four aspects are particularly important to users: The products must be easy to use and safe. They should also increase convenience and be energy efficient, keeping electricity costs down. FRITZ! products by AVM are designed with precisely these needs in mind. A number of smart scenarios can be implemented via the LAN, Wi-Fi, Powerline and DECT connection paths. With FRITZ!Box so widespread in Germany, it's easy for many users to start making their house a Smart Home.

## Smart Home products from FRITZ!

At the heart of the smart FRITZ! home network are FRITZ!Box models with an integrated DECT base station. Using the DECT ULE wireless standard, the FRITZ!Box communicates with the devices in the home network, enabling smart interaction among all products. With smart plugs, intelligent switches, the FRITZ!DECT 301 smart radiator control, the FRITZ!Apps and FRITZ!Fon models, AVM offers a wide range of products for smart home networking.

## AVM offers the following Smart Home products

**FRITZ!DECT 200 and 210:** With the FRITZ!DECT 200 and 210 smart plugs, connected devices can be switched on/off automatically or manually. At the same time the energy consumption of the devices is measured. The smart plugs allow users to set individual schedules, and they also receive free updates with new features. Thanks to IP44 splash protection and an extended temperature range of between  $-20^{\circ}$  and  $+40^{\circ}$  C, FRITZ!DECT 210 is extremely robust and is especially suited to outdoor use.



**FRITZ!DECT 301:** in combination with a FRITZ!Box the FRITZ!DECT 301 smart radiator control from AVM manages the room temperature automatically and precisely. The FRITZ!DECT 301 uses an e-paper display that is easy to read and energy-efficient.

**FRITZ!DECT 400 and 440:** The FRITZ!DECT 400 and 440 smart switches are ideal in combination with the FRITZ!DECT 200 and FRITZ!DECT 210 smart plugs. With the FRITZ!DECT 400 you can control and switch both smart plugs either individually or in groups. The other smart switch, FRITZ!DECT 440, has four configurable buttons for operating FRITZ! products, making it the ideal remote control for the smart home network. It can be used to turn different FRITZ! Smart Home devices on and off, individually or in groups, and activate templates. Thanks to the built-in temperature sensor, FRITZ!DECT 440 measures the ambient temperature and can be used as an external temperature sensor for the radiator control from FRITZ!.

**FRITZ!DECT 500:** FRITZ!DECT 500 is an LED light with smart lighting control for white and color light. It's easy to integrate into the FRITZ! home network at the touch of a button. The light provides



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illumination for any situation, thanks to the adjustable dimmer. FRITZ!DECT 500 can be managed using the FRITZ!DECT 400 and 440 smart switches, FRITZ!Fon, the FRITZ!Box user interface or the FRITZ!App Smart Home.

**FRITZ!Fon:** The FRITZ!Fon C4, C5 and C6 can be used to control the FRITZ! smart home network. For example, the phones control the FRITZ! smart plugs and the FRITZ!DECT 301 smart radiator control. In addition, the FRITZ!Fon can receive images from door intercom systems and also has a door opening function.

**FRITZ!Apps:** The FRITZ!Apps round off AVM's smart product range. With the FRITZ!App Smart Home all Smart Home devices can be controlled conveniently and intuitively. With the MyFRITZ!App this is easy from anywhere outside the home.

### Advantages of FRITZ! Smart Home products

- **Easy to set up and use:** Setting up a Smart Home network is especially easy with FRITZ!. Thanks to numerous wizards and the intuitive user interface, FRITZ!Box, FRITZ!Fon and FRITZ!DECT devices are set up in no time at all and operation is practically automatic. A few touches of a button are enough to securely connect the smart FRITZ! Products.
- **See what's happening:** As a base station, the FRITZ!Box is the hub of the smart home network. It controls the Smart Home and provides the user with all important information at a glance.
- **Manufacturer-independent:** Thanks to the HAN FUN protocol, the smart FRITZ! home network works with devices from other manufacturers. HAN FUN stands for "Home Area Network FUNctional protocol" and is an extension of the DECT ULE standard. Furthermore AVM has published interfaces and protocols concerning FRITZ!Box. This enables developers who are interested to drive product developments independently.
- **Free updates:** FRITZ! products are regularly developed and receive free updates. When it comes to Smart Home, this means even more security and above all new functions and features.





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## The technology behind DECT

DECT is short for "Digital Enhanced Cordless Telecommunications". It is based on a wireless standard for cordless voice and data communication. The exchange of data between the FRITZ!Box and the Smart Home devices takes place via the DECT ULE standard. ULE stands for Ultra Low Energy. The standard is particularly energy-efficient and is therefore well suited for battery-powered actuators such as the FRITZ!DECT 301. In addition, the DECT ULE standard has great wireless range, the frequency bands used are interference-free and the data is securely encrypted. This is why AVM uses the standard in all FRITZ! Smart Home products.

An added benefit: The HAN FUN protocol mentioned above is an extension of the DECT ULE wireless standard. HAN FUN stands for "Home Area Network FUNctional Protocol" and ensures that Smart Home devices can communicate with devices from different manufacturers. For example, the FRITZ!Box supports actuators from Deutsche Telekom. Of course, even devices that use Wi-Fi, LAN or powerline standards can be integrated into the smart FRITZ! home network.

## The advantages of DECT at a glance

- Long range
- Secure encryption
- Energy efficient
- Easy to expand thanks to manufacturer-independent standards
- Dedicated frequency range, independent of Wi-Fi (1900 to 1902 MHz)

## FRITZ! and voice control in the Smart Home

Virtual assistants such as Amazon Alexa with Echo, Apple Siri with HomeKit, or Google Assistant with Home are cloud-based, meaning they have to be able to access Smart Home devices and their settings via the internet. AVM, however, sets very high standards for FRITZ! products when it comes to privacy and security. This is why there is currently no AVM solution for voice control of Smart Home devices. However, FRITZ! products support a number of standardized interfaces. In addition, independent developers can offer their own solutions for controlling compatible Smart Home devices. For example, in the "Alexa Skills" store on Amazon there is a skill that allows users to use voice control for FRITZ! products via Alexa. Information about the interfaces supported by FRITZ! products can be found here: <https://avm.de/service/schnittstellen>.

Find out more about Smart Home here: <https://en.avm.de/guide/smart-home/>

## Press contacts

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