

Home Compenser® for fast Internet

The send and receive signal booster for a stable broadband Internet connection

The Home Compenser® is the perfect solution for areas where broadband Internet via UMTS as a substitute for DSL is a real alternative. The send and receive signal booster also facilitates a stable Internet connection at home if, for instance, thick walls and heat insulation weaken the outside signal and prevent or severely limit an Internet connection inside the home via the mobile network.

The Plug & Play Home Compenser® is simply positioned in the building wherever a stable UMTS signal is available, for instance directly by the window or ideally high up in the house. The Home Compenser® amplifies the mobile network signal both for sending and receiving. This makes the full sending capacity available on the antenna and full receiving capacity available on the PC. Any line losses en route to the terminal are reliably compensated with excellent quality, making the signal available at any desired location in the house.

The unique, patented Compenser® booster technology is used direct from the factory by many renowned car manufacturers. The exacting demands of the automobile industry also mean that the booster is ideal for individual retrofitting at home. The Home Compenser® works with the GSM900, GSM1800 and UMTS Band 1 mobile networks; switching is performed automatically. The device supports the GPRS, HSDPA/HSUPA and EDGE transmission protocols.



Technical specifications

- **Suitable for GSM 900/GSM 1800 and UMTS**
- **Supported transmission methods**
GPRS, HSCSD, EDGE; UMTS, HSDPA, HSUPA
- **Operating voltage**
9 V ... 16 V
- **Current consumption [for UPR =13V]**
on average: 260 mA ... 400 mA
max. peak current: approx 1.6 A
stand-by: <0.1 mA
- **Frequency range**
GSM 900, GSM 1800, UMTS band 1 [FDD]
- **Maximum transmission power**
GSM 900: 2 W (33 dBm)
GSM 1800: 1 W (30 dBm)
UMTS: 0,25 W (24 dBm)
- **Operating temperature**
-40°C ... 70°C
- **Attenuation equaliser for transmission and receive path**
GSM 900: each 8 dB
GSM 1800: each 11,5 dB
UMTS Band 1: each 13 dB
- **Connector power supply**
Barrel connector 2,1 mm
- **HF connector**
SMA

Scope of supplies

- Antenna
- Home Compenser
- Set of cables 7 m with SMA and FME connectors
- Connector power supply
- Operating Instructions

Home Compenser® with directional antenna for fast Internet

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Many rural areas have no or only limited access to DSL, and even cable is only rarely an alternative in such places. The infrastructure required for these facilities is simply too expensive to put in place. The stationary use of broadband Internet via UMTS as a substitute for DSL is therefore a real alternative thanks to the high-speed HSDPA/HSUPA data network. However, this network also has blackspots and very poor signal qualities that allow only an inadequate or even no connection to the Internet.

The Home Compenser® with directional antenna from Funkwerk Dabendorf is able to solve this problem: with an external antenna aligned to the nearest UMTS base station, the Home Compenser® is able to bring a stable UMTS signal even to places that, according to the provider's network coverage map, are not classed as being covered.

The Home Compenser® amplifies the mobile network signal between the terminal and the external antenna both for sending and receiving. This makes the full sending capacity available on the antenna and full receiving capacity available on the PC. The line losses between the antenna and the terminal are reliably compensated with excellent quality, and the antenna gain allows the range to be increased.

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