

KRD 901 54 Quick Installation Guide

Home Base Station 2
Mobile@Home

Preliminary



Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution :To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. No change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Disclaimer

The contents of this document are subject to revision without notice due to continued progress in methodology, design, and manufacturing. Ericsson shall have no liability for any error or damage of any kind resulting from the use of this document.

Introduction

This guide describes briefly how to install the KRD 901 54 access point (AP) and how to pair/bond this to the Mobile Phone.

KRD 901 54 Installation

It is recommended to place the KRD 901 54 as centrally as possible in the area to give coverage; see *Figure 1*. A height of at least 1 meter above floor level is advised.

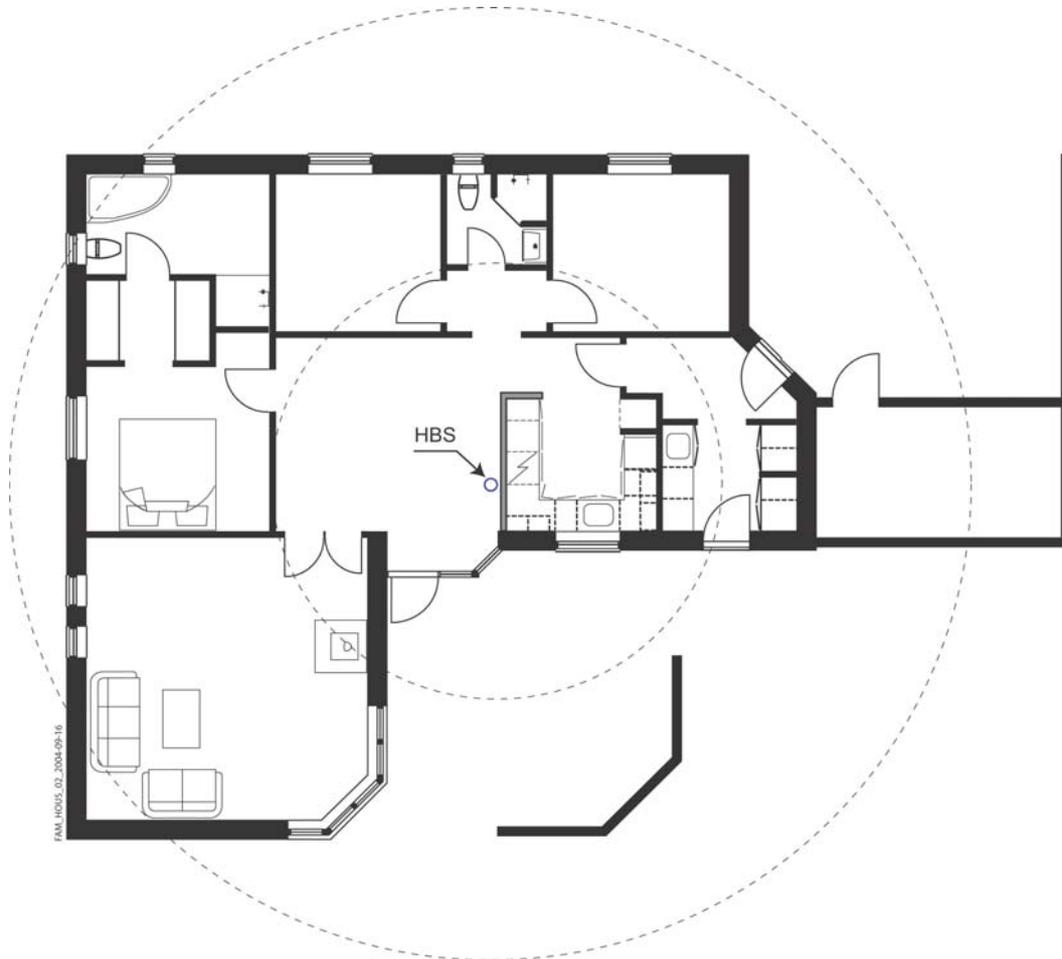


Figure 1 Example on centrally placement of KRD 901 54 in the home; circles indicate distance to the KRD 901 54

The KRD 901 54 can be placed on the wall; see *Figure 2* or standing on a desk, shelf or the like; see *Figure 3*.

In principle the KRD 901 54 may be placed where desired, although, to get the best coverage, it is recommended not to place the KRD 901 54 close to metallic objects, as

they will influence the transmitted signals. Usually the antenna is recommended to point vertically.

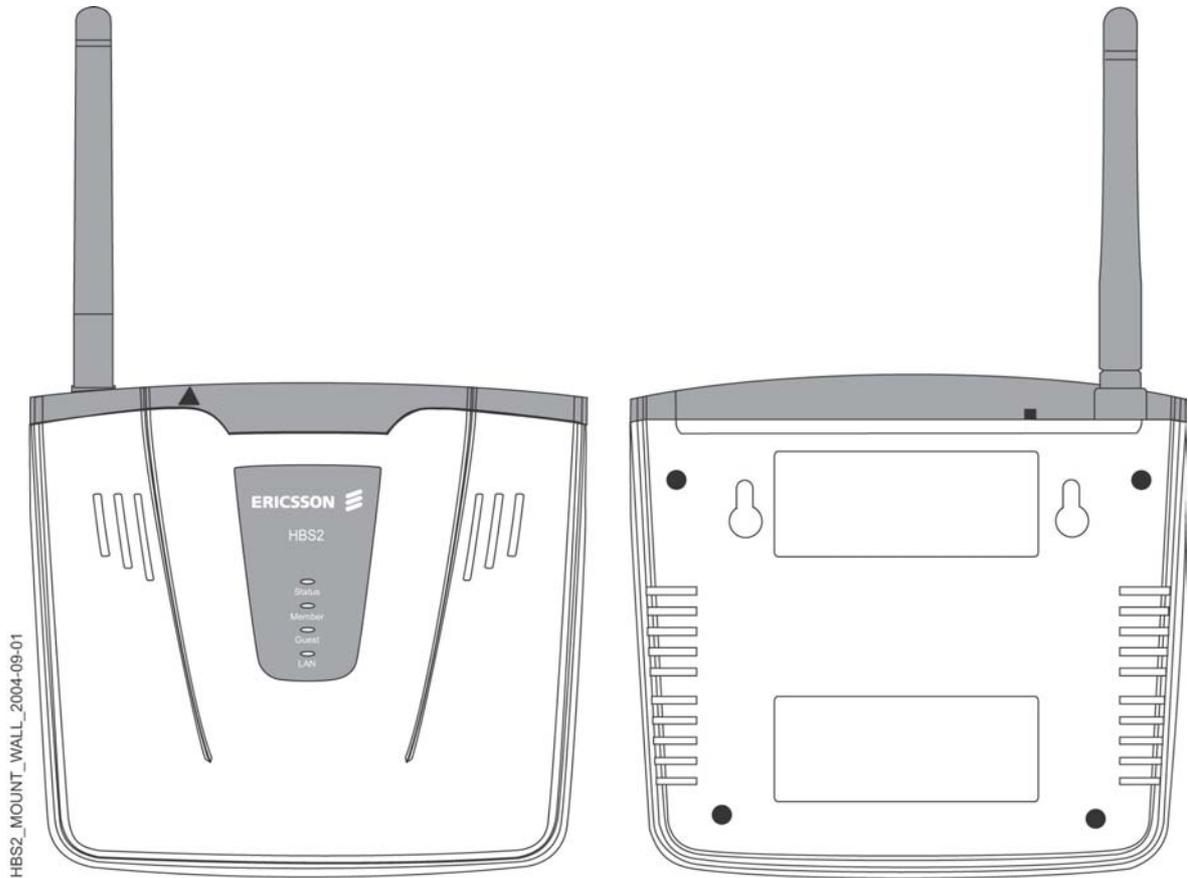


Figure 2 Wall mount. Front view to the left. Bottom view to the right.
The Screw holes are 80 mm apart

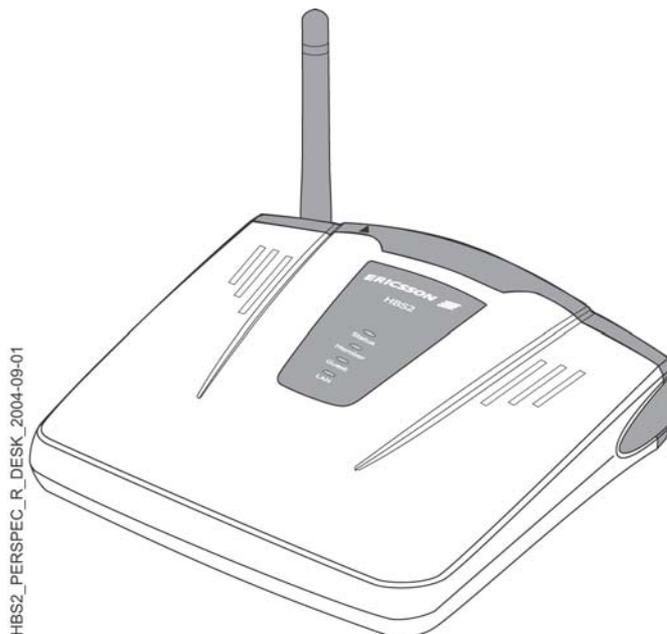


Figure 3 Desk and shelf placement

Cabling of Power Connections

To connect the KRD 901 54 the power adapter enclosed is to be used. If Power over Ethernet is available this may be used instead of powering via the power adapter cable. The power cable and the Ethernet cable to the IP Access Network shall be connected as shown in *Figure 4* below.

Buttons on rear panel of KRD 901 54

On the rear panel a push-button is placed. Pressing the button once will start the member pairing sequence. Pressing the button twice (like a double click using a “mouse”) will start the guest pairing sequence (i.e. being a guest at the premises of another “Member”). See *Figure 4*.

Also a Reset function can be activated from the rear panel by using a thin pointy device for at least 3 seconds. Activating the reset button will set the KRD 901 54 up to the factory default settings; i.e. the PIN code and clearing the pairing list. See *Figure 4*.

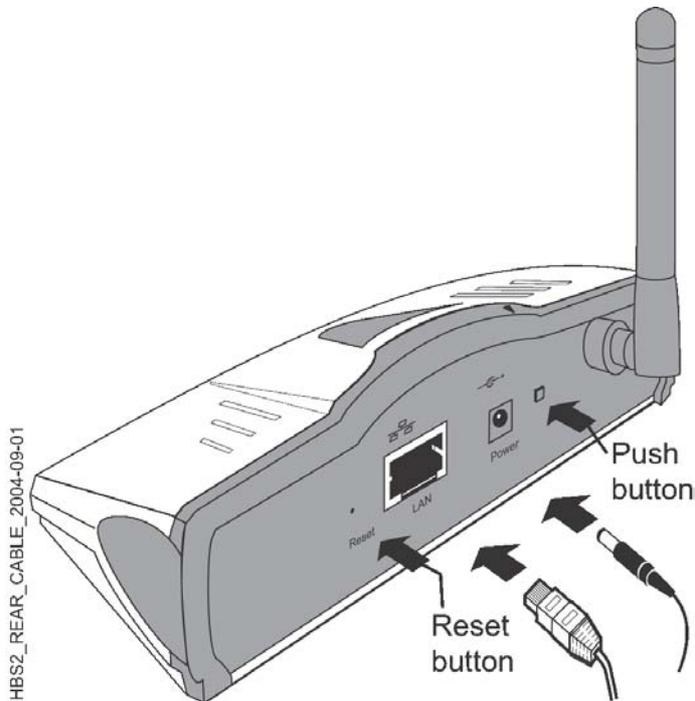


Figure 4 Cable connections

LED indications of KRD 901 54

On the front of the KRD 901 54 four Light Emitting Diodes (LEDs) are situated. The LEDs gives indications as described in the Table 1 below.

The LEDs labeled Member and Guest are only used in relation to the pairing sequence and will be turned off after a short time. Pairing mode lasts 2 minutes from the pairing button is pressed.

Table 1 Various LED indications on the KRD 901 54

| LED state | User action | State | Status | Member | Guest |
|--|---|---|-----------|--------|--------|
| Restart | - | KRD 901 54 is connecting | ██████ | | |
| Idle | - | Idle | ██████ | | |
| Traffic | - | Traffic ongoing | ▒▒▒▒ | | |
| Member Pairing | Single push | Prepare KRD 901 54 for private pairing #) | | ▒▒▒▒ | |
| Guest pairing | Double push | Prepare KRD 901 54 for guest pairing #) | | ▒▒▒▒ | ▒▒▒▒ |
| Pairing Success | - | | | ██████ | ██████ |
| Pairing Failure | - | | | ██████ | ██████ |
| Fatal Failure §) | - | Failure in KRD 901 54 | ██████ | | |
| Reset to Factory default settings | Push Reset button for more than 3 seconds | Resets all parameters to factory default settings | ██████ | ██████ | ██████ |
| █████ = Steady; ▒▒ = Flashing Fast; █ █ = Flashing Slowly §) indication is seen briefly and a reboot will begin shortly after | | | █ = red | | |
| | | | ▒ = green | | |

The LED marked "LAN" indicates the activity on the LAN connection by blinking or steady green light.

#) A quick single push on the "Push button" (see Figure 5) on the rear panel aborts an ongoing pairing sequence.



Figure 5 Front panel of the KRD 901 54

Registering a Mobile Phone to the KRD 901 54 – Pairing

In order to make the first call through the KRD 901 54, the Mobile Phone has to be registered to the KRD 901 54 – the so-called pairing or bonding.

After a reset i.e. activation of the Reset button, it is necessary to redo the pairing. The Mobile Phone must be Bluetooth enabled.

Please refer to instructions regarding “Bluetooth wireless” in the user’s guide of the actual Mobile Phone in use.

Pairing can take place in two cases. Member pairing is a permanent pairing to the KRD 901 54 access point in the premises where the Mobile@Home solution is installed. Guest pairing is a temporary pairing a Mobile Phone to the KRD 901 54 access point e.g. during a visit in a premises of another owner (“Member”). The guest pairing information is removed from the pairing list 24 hours after the last call was completed.

Member pairing

Prepare the KRD 901 54 for Member pairing by pushing the button (Pairing button) on the rear panel of the KRD 901 54 once; see *Figure 6*. The **Member** LED will flash fast green.

or

Guest pairing

Prepare the KRD 901 54 for Guest pairing by double pushing the button (Pairing button) on the rear panel of the KRD 901 54; see *Figure 6*.

The **Guest** LED will flash fast green. Guest pairing is pairing a Mobile Phone when visiting “another” home with an KRD 901 54 access point (AP).

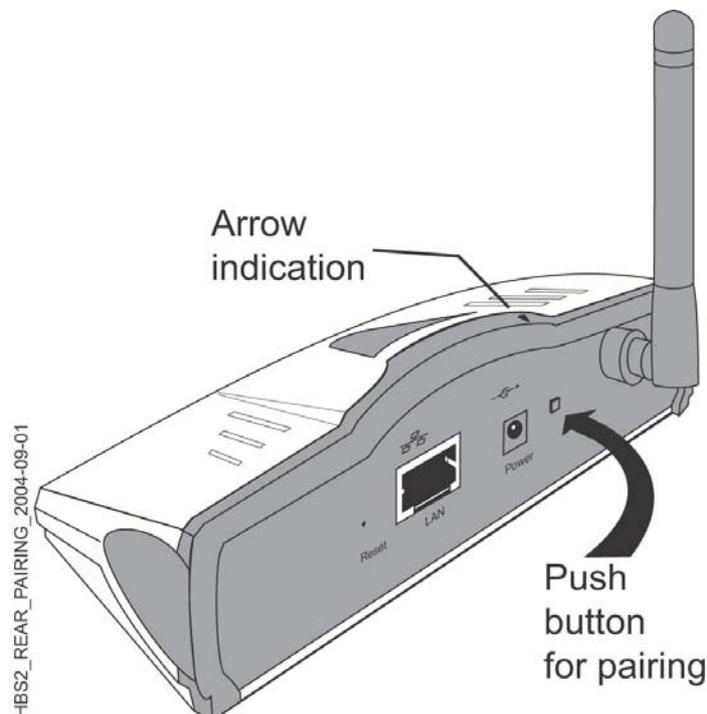


Figure 6 Press the Pairing button once for Member pairing and twice for Guest pairing

Bluetooth devices that are located within the range of the Mobile Phone will be listed in the display. KRD 901 54 devices are identified by their Bluetooth Device Address that can also be found on the bar code label (BDA). The information displayed in the list is vendor dependant.

Depending on the service provider a PIN code may be requested for security reasons. This will be prompted for in the display. Enter the assigned PIN code (up to 16 digits; factory default setting is 4 digits) and press the “Send key”/“Yes” key.

In the display of the Mobile Phone a Bluetooth symbol  will appear, indicating that a Bluetooth link is established between the Mobile Phone and the KRD 901 54.

Disclaimer: Depending on the Bluetooth capabilities of the Mobile Phone the Mobile@Home link may not co-exist with a Bluetooth headset link.

If more Mobile Phones have to be paired to the KRD 901 54, please repeat the above pairing procedure.

Note: The pairing must be done within 2 minutes after the pairing button has been pushed (*Figure 6*).

Troubleshooting

In Case of a troublesome situation is supposed, check the following:

- if none of the LEDs are lit, check if the power cable is connected or the Power over Ethernet is working satisfactory.
- if neither of the Member or Guest LEDs are lit steady green for a short while after the pairing session has terminated, redo the pairing sequence.
- if no connection is established through the KRD 901 54, i.e. the LAN LED is giving no indication, check if the LAN cable is connected correctly to both the KRD 901 54 and the IP Access Network terminal.
- if an unforeseen and troublesome situation should arise, either unplug the power connector for approx. 10 sec. and reconnect, or remove the Ethernet cable (if powered over Ethernet).

Technical data

| | |
|--------------------------|--|
| Dimensions (h x w x d) | 41 x 137 x 128 [mm]; antenna may add from 65 to 87 mm to “h” or “d” depending on direction |
| Weight | 215 g (Power adaptor excluded) |
| Number of paired devices | 10 |
| AD/DC adaptor: | |
| - market variants | USA/Canada, UK, Europe, China |
| - input | 100 to 240 VAC; 50/60 Hz; 0,5A |
| - output | 24 VDC; 0,3A |
| - power | < 5 W |
| LAN interface | 10/100 BaseT |
| Quality of Service | supports DiffServ |
| HTTP-server | WEB access for local management |

