

**Bluetooth® INPUT MODULE FOR HELIX DSP PRO**

**Congratulations!**

Dear Customer,

congratulations on your purchase of this high-quality HELIX EXTENSION CARD. This module is produced by using the latest technology. We wish you many hours of enjoyment with your new HELIX product.

Yours,  
AUDIOTEC FISCHER

**General installation instructions for HELIX components**

To prevent damage to the unit / module and possible injury, read this manual carefully and follow all installation instructions. This product has been checked for proper function prior to shipping and is guaranteed against manufacturing defects.

**Before starting your installation, disconnect the battery's negative terminal and all cables from the device to prevent damage to the unit / module, fire and / or risk of injury.** For a proper performance and to ensure full warranty coverage, we strongly recommend to get this product installed by an authorized HELIX dealer.

**Install the HEC module only in the designated device and its specific slot. Using the HEC module in other devices or slots can result in damage of the HEC module, the processor, the head unit / radio or other connected devices!**

**Technical data**

Bluetooth® standard:	v3.0 + EDR
Bluetooth® profile:	A2DP
Bluetooth® codec:	SBC and Qualcomm® aptX®
Number of paired devices:	8
Wireless frequency range:	2402 ~ 2480 Mhz
Range:	Up to 10 m
Digital optical output:	SPDIF with 96 kHz / 24 Bit

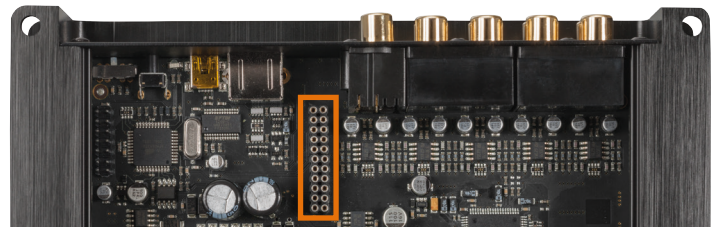


**Mounting information**

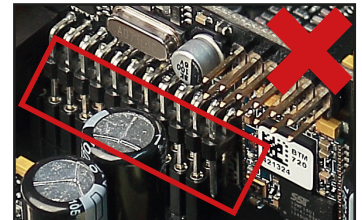
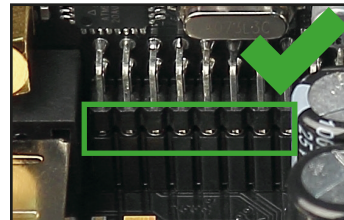
1. First disconnect all cables from the device.
2. Dismantle the side panel by removing the marked screws with a Phillips screwdriver:



3. Pull out the bottom plate.
4. Remove the nut and the washer from the antenna socket of the HEC module.
5. Insert the HEC module into the marked slot:



6. Make sure that the HEC module is installed properly and all pins are fully inserted into the socket:



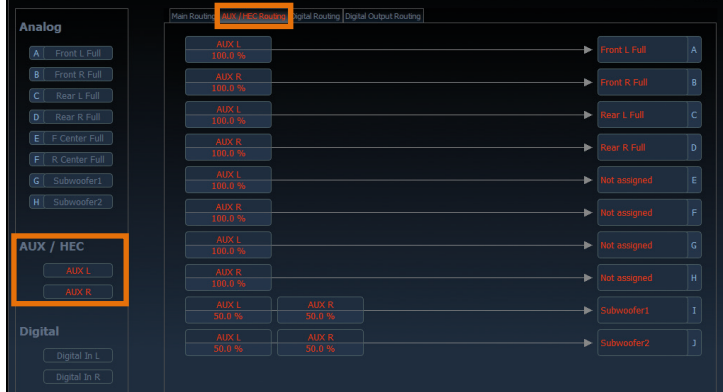
7. Reinsert the bottom plate and fix the new side panel which is delivered with the HEC module with the Phillips screws.
8. Put the washer and the nut on the antenna socket and bolt it to the side panel.  
**Caution:** Do not overtighten the nut as this may damage the socket!



9. Reconnect all cables to the device.

### Signal routing of the HEC module

As soon as the HEC module is installed, it is automatically detected by the device. Now you can allocate the HEC module to the desired outputs in the "AUX / HEC Routing" matrix.



Several new features are visible in the DSP PC-Tool after installing a HEC module.

### Pairing of the HEC BT module with other Bluetooth® devices

The HEC BT module supports the A2DP profile with Qualcomm® aptX® codec for maximum sound performance. The digital Bluetooth® data stream in I²S format is directly fed into the DSP without any interim signal conversion. A one-time pairing procedure is mandatory to establish a connection between the HELIX DSP PRO and your Bluetooth® device. Make sure that the Bluetooth® function on your device has been activated before you start the pairing process.

**Important:** The Status LED of the Bluetooth® module flashes alternately red and green. After three minutes the pairing mode is left automatically if the connection has not been established.

#### Option a)

Turn on the HELIX DSP PRO and push the "control" button < 1 sec. in order to start the pairing mode:



#### Option b)

Directly start the pairing mode in the DSP PC-Tool software:



After the pairing mode is activated the Bluetooth® network can be found under the name "HEC BT". There is also the possibility to change the name by clicking on the name field of the HELIX EXTENSION CARD section of the DCM menu.

The HEC BT module can be paired with up to eight Bluetooth® devices. As soon as you try to pair a ninth device, the first one will be erased automatically from the pairing list.

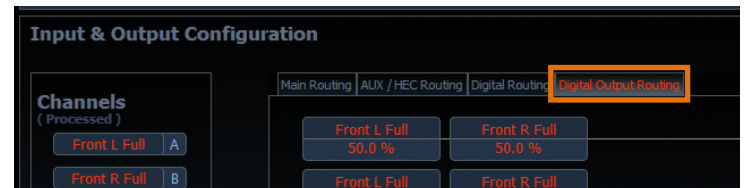
Note that the HEC BT module solely allows the audio transmission with one single Bluetooth® device at a time.

### The optical SPDIF output of the HEC BT module

The installation of the HEC module adds as well an additional digital optical SPDIF output to your device. This output allows to transmit any unprocessed input or processed output signals to other devices.



A new matrix "Digital Output Routing" appears in the "Input and Output Configuration" page in which you can make your desired settings.



The digital output delivers an uncoded stereo PCM signal with 96 kHz / 24 Bit.

### Warranty disclaimer

The limited warranty comply with legal regulations. Failures or damages caused by overload or improper use are not covered by the warranty. Please return the defective product only with a valid proof of purchase and a detailed malfunction description. Technical specifications are subject to change! Errors are reserved!

For damages on the vehicle and the device, caused by handling errors of the module, we can't assume liability. These devices are certified for the use in vehicles within the European Community (EC).

Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries, used with permission. aptX is a trademark of Qualcomm Technologies International, Ltd., registered in the United States and other countries, used with permission.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Audiotec Fischer GmbH is under license. Other trademarks and trade names are those of their respective owners.