HBC-radiomatic GMBH

Inhalt

1 Introduction

This document describes the installation of TF0100__into the HBC-transmitter.

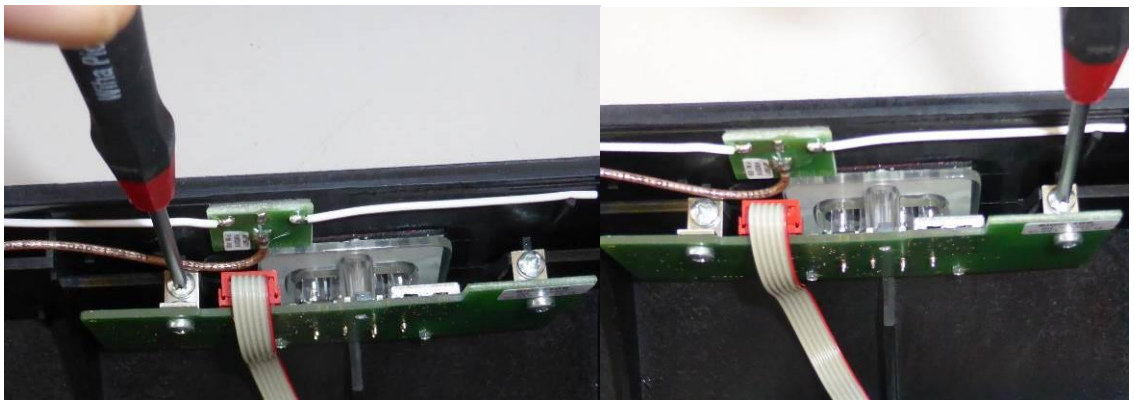
2 Installation

2.1 Possible Hosts

The module TF010010 may be installed in every HBC-transmitter. It has to be supplied with a DC voltage of 3.0 V up to 5V for the VCC-Input. The module TF010010 has an integrated RFID-antenna. So there is no need for an antenna installation.

2.2 Installation process

The TF010010 module has to be mounted with 2 screws into the transmitter-housing according to the next 2 pictures.



The module has to be connected electrically with the transmitter via BU1. So the connection cable has to be plugged in BU1.

FCC

- The Federal Communications Commission (FCC) warns the users that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- FCC §15.105 (a):
  NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

- This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
  (1) This device may not cause interference; and
  (2) This device must accept any interference, including interference that may cause undesired operation of the device.

- L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
  1) l'appareil ne doit pas produire de brouillage;
  2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

3 Authorization requirements

The integrator of a certified module is responsible for ensuring that the end product consisting of host and module(s) installed continues to be compliant with all the intentional radiator requirements applicable to the module(s) and the host. When additional application filing for RF exposure compliance demonstration is not required, the host manufacturer may do evaluation without any filing if compliance with transmitter output power, out-of-band, restricted band, and spurious emission requirements as specified in 47 CFR Part 15 subpart C and appropriate ISED Radio Standards Specifications (RSS) is confirmed for the end product.

The host manufacturer is also responsible for ensuring that the host continues to be compliant with the 47 CFR Part 15 subpart B unintentional radiator requirements after the module is installed and operational. Therefore, the procedure for equipment authorization of unintentional radiators as stated in §15.101 applies to the end product, too.

4 Labeling requirements for the host

At the HBC-transmitter into which the TF010010 module is installed the label has to be added with the following content:

- Contains FCC ID: NO9TF010
- Contains IC: 2977A-TF010

5 Instruction manual requirements

The following content has to be added in the instruction manual of the HBC-transmitter which contains the TF010010 module:

> “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.”
>
> **Modification of equipment**
> The instruction manual of the host shall include the following statement:
> Changes or modifications made to this equipment not expressly approved by the party responsible for compliance may void the FCC authorization to operate this equipment.
>
> **Information to the user**
> (The instruction manual of the host shall include the following statement)

- FCC §15.105 (a):
  NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

- This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
  (1) This device may not cause interference; and
  (2) This device must accept any interference, including interference that may cause undesired operation of the device.

- L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
  (1) l'appareil ne doit pas produire de brouillage;
  (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Special accessories

Where special accessories such as shielded cables and/or special connectors are required to comply with the emission limits, the instruction manual shall include appropriate instructions on the first page of the text describing the installation of the device.

Simultaneous transmission

When the host product supports simultaneous-transmission operations the host manufacturer needs to check if there are additional RF exposure filing requirements due to the simultaneous transmissions. When additional application filing for RF exposure compliance demonstration is not required (e. g. the RF module in combination with all simultaneously operating transmitters complies with the RF exposure simultaneous transmission SAR test exclusion requirements), the host manufacturer may do his own evaluation without any filing, using reasonable engineering judgment and testing for confirming compliance with transmitter output power, out-of-band, restricted band, and spurious emission requirements in the simultaneous-transmission operating modes.

If additional filing is required please contact the person at HBC Radiomatic responsible for certification of the RF module.