

## Manual for EPI7684, the wireless food probe system

### 1 General

The wireless food probe system consists of the radio module (EPI7684), antenna system and the wireless food probe. This system enables the roasting process of the food to be monitored simple and reliably. The wireless food probe will be here not described because it is a passive device and does not matter for the installation of the system.

The wireless food probe system may be installed in the Miele domestic appliances like ovens or steam cooker (host devices)

#### Integration instruction

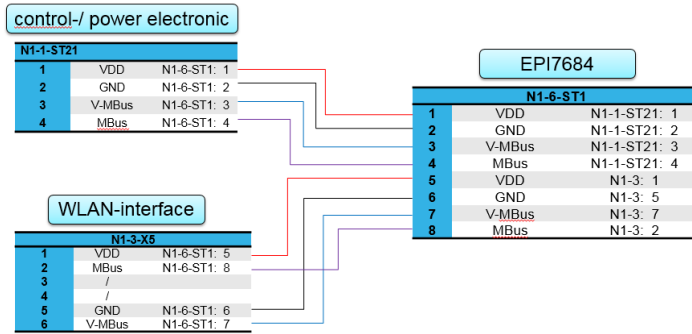
The EPI7684 and the loop antenna must be integrated under consideration of the technical data. It is not allowed to make any changes on the module or use another antenna.

### 2 Technical data EPI7684 and antenna

VCC in V	13,0 and 3,3 DC
Current in mA	170 max.
Ambient temperature in °C	0-85
Humidity max	90% Non condensation
Dimensions in mm	105x80
Wireless	
Antenna type	external loop antenna
Antenna gain	-7dBi
Frequency band	2400 MHz - 2483.5 MHz
Method of transmitting radio signal	FHSS
Channels	600
Transmission Power in mW	<100

#### 2.1 Interface to the control-/ power electronic of the host device

On the control-/ power electronic is a 4-pin rast 2.5 plug and on the EPI site is 8-pin rast 2.5 plug. This connection includes communication and power supply wire (13 and 3,3V DC)



### 3 Norms / Standards

#### 3.1 FCC / IC

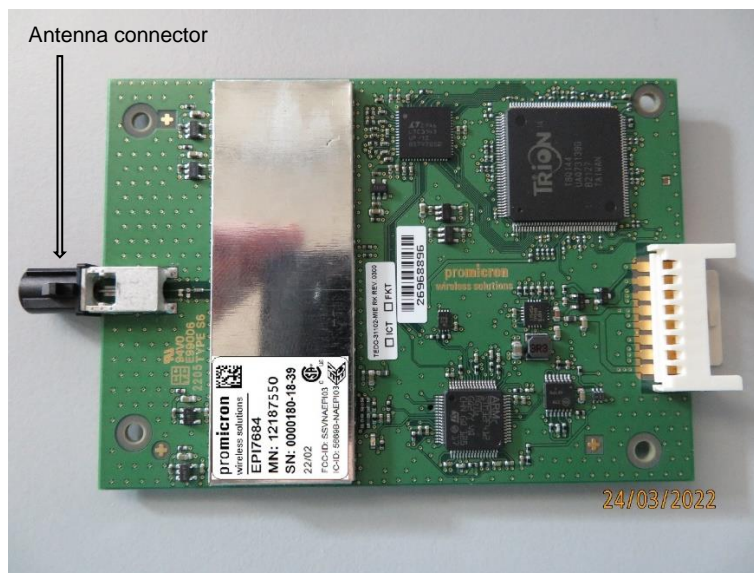
FCC regulation:

FCC 47 CFR  
Part 15.247  
Part 1.1310  
Part 1.1091

IC regulation:

RSS-247, Issue 2  
RSS-Gen, Issue 5  
RSS-102, Issue 5

#### 3.2 Photos and Labels



Picture 1: Module EPI7684



Picture 2: label of the module



Picture 3: loop antenna, FAKRA-connector

## 4 Compliance Statement and Integration

In accordance with FCC 47 CFR Part 15 and RSS-247, Issue 2, the EPI7684 (FCC ID: SSVNAEPI03; IC: 5669B-EPINA03) is listed as a Modular Transmitter Device.

### Notice:

This device complies with Part 15 of the FCC Rules and contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS Standard(s).

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.

**Radiofrequency radiation exposure Information:**

This equipment complies with FCC radiation exposure limits set forth and Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**CAUTION:**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**USERS MANUAL OF THE END PRODUCT:**

The end user has to be informed that any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

The following statements are required to be available in the user's manual:

This device complies with Part 15 of the FCC Rules and contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS Standard(s).

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.

Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**Radiofrequency radiation exposure Information:**

This equipment complies with FCC radiation exposure limits set forth and Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux rayonnements de la FCC et aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps. Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

**LABEL OF THE END PRODUCT:**

The final end product must be labeled in a visible area with the following "Contains FCC ID: SSVNAEPI03; Contains IC: 5669B-EPINA03".

The following statement has to also be available on the label:

This device complies with Part 15 of the FCC Rules and contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS Standard(s).

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.

Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

#### **4.1 Integration**

This EPI7684 Module will only be integrated on our responsibility into Miele appliances/endproducts.

The host manufacturer is responsible for additional testing to verify compliance as a composite system. When testing the host device for compliance with the Part 15 Subpart B requirements, the host manufacturer is required to show compliance with the Part 15 Subpart B while the transmitter module(s) are installed and operating. The modules should be transmitting and the evaluation should confirm that the module's intentional emissions are compliant (i.e. fundamental and out of band emissions) with the Radio essential requirements. The host manufacturer must verify that there are no additional unintentional emissions other than what is permitted in the Part 15 Subpart B or emissions are complaint with the Radio aspect