Verfasser/author: Stan Schnüttgen

Datum/date: 2019-07-09

Instructions for host product manufacturers

1. General
This instruction is related to the following customized Read/Write RFID module.

RFID-Module: TS-HW42
FDD-ID: 2AS5K-TSHW42
IC: 25004-TSHW42A

2.2. List of applicable FCC and ISED rules
FCC 47 CFR Part 15c
FCC 47 CFR 2.1091
FCC 47 CFR 2.1093
FCC KDB 447498 D01

ISED RSS-210, Issue 9
ISED RSS-Gen, Issue 5
ISED RSS-102, Issue 5

2.3. Specific operational use conditions
The module is only approved for use by W.O.M. World Of Medicine GmbH in our own products and not intended for sale to third parties. The RFID module is intended to be used together with the dedicated antenna TS-AH20 only. Because the module will not be sold separately, all information about operational use conditions are described in the IFU of the host system.

2.4. Limited module procedures
The module gets a limited approval and will only be used in dedicated host systems which are approved separately regarding more applicable FCC/IC rules. The selling of the RFID module separately is not intended.

2.5. Trace antenna designs
Trace antenna design is not applicable for this module.

2.6. RF exposure considerations
The RFID-Module is approved as device type portable in the exposure category general public with a maximum permissible exposure at 0cm from a person's body and as device type mobile in the exposure category general public with a maximum permissible exposure at 20cm from a person's body. The host products must contain the previously mentioned information in their end-product manuals.

2.7. Antennas

The RFID module is intended for use with the dedicated antenna TS-AH20 only. The antenna is connected via a dedicated SMA connector. TS-AH20 is an Inductive Loop Antenna with a loop area of 0.00032m².

2.8. Label and compliance information

The device label of the host product must be equipped with the sentence

"Contains FCC ID: 2AS5K-TSHW42 / Contains IC: 25004-TSHW42A."

The end-products will contain the following compliance statements either on the product, on the device or both:

FCC

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

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.

ISED

This device complies with Industry Canada's licence-exempt RSSs. 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.

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;

2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The IFU of the host product contains the following information:

RFID Transponder Technology

Transmit/Receive Frequency Range: 13.56 MHz ± 0.424 MHz

Transceiver class: Class I

RF Output Power: -10.83 dBµA/m at 10 m/ 32.8 ft

Type of Antenna: Inductive Loop Antenna

Antenna loop area: 0.00032 m²

Modulation: Amplitude-shift keying (ASK)
Mode of Operation (Simplex / Duplex): Duplex

2.9. Information on test modes and additional testing requirements

The module gets a limited approval and will only be used in dedicated host systems which are approved separately regarding the following FCC/IC rules:
FCC 47 CFR Part 15B
FCC 47 CFR Part 15C
FCC 47 CFR 2.1091
KDB 447498 D01

ISED ICES-003, Issue 6
ISED RSS-210, Issue 9
ISED RSS-Gen, Issue 5
RSS-102, Issue 5

2.10. Additional testing, Part 15 Subpart B disclaimer

The module is only authorized for the specific rule parts listed on the grant / certificate. The host product must be tested for compliance to any other FCC/ISED rules that apply to the host not covered by the module grant of certification. The final host product requires Part 15 Subpart B compliance testing with the module installed.