

**HF-RFID
Model: RI18A
User Manual**

GENERAL

The RI18A is a highly integrated transceiver module for contactless reader/writer communication at 13.56 MHz.

Integration to the end product

1. Mount RI18A into the HF-RFID Gadget Model: FZ-VNF551U of Panasonic PC Accessory
2. Connect RF Antenna and connect Host Interface by Flexible printed circuit.

Technical Specification

- | | |
|-----------------------------|------------------------------------------|
| a) Dimensions (H x W x D): | 17.6mm x 40.15mm x 1.0mm |
| b) Supported RF protocols : | ISO/ IEC14443 Type A, Type B, and Felica |
| c) Operating Temperature: | -10 to 50 degree Celsius |
| d) Host interface: | Serial Peripheral Interface |

Regulatory Information

Federal Communications Commission Radio Frequency Interference Statement

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment may not be collocated or operated with any other antenna or transmitter.

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless device employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.

* Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Instructions to OEM Integrators

A User manual provided to the end user must indicate the operating requirements and conditions that must be observed to ensure compliance with the above-mentioned FCC RF Exposure guideline.

If this module is intended for use in a portable device, integrators are responsible for separate evaluation and/or approval to satisfy FCC RF Exposure requirements.

If other radio devices are to be integrated with this module, an additional evaluation and FCC submission may be required. Integrators are responsible for such additional evaluation and FCC submission.

The following information must be indicated on the host device of this module;

Model : RI18A

FCC ID : ACJ9TGRI18A

IC: 216H-CFRI18A

Canada-ISED Canada

This device complies with ISED Canada's license-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.

Cet équipement est conforme aux normes sans licence RSS d'ISED Canada.

Son fonctionnement est soumis aux deux conditions suivantes :

- (1) ce dispositif ne peut produire de brouillage, et
- (2) ce dispositif doit accepter le brouillage, y compris le brouillage pouvant entraîner le fonctionnement non désiré de l'appareil..

Instructions to OEM Integrators

A User manual provided to the end user must indicate the operating requirements and conditions that must be observed to ensure compliance with the above-mentioned ISED Canada RF Exposure guideline.

If this module is intended for use in a portable device, integrators are responsible for separate evaluation and/or approval to satisfy ISED Canada RF Exposure requirements.

If other radio devices are to be integrated with this module, an additional evaluation and ISED Canada submission may be required. Integrators are responsible for such additional evaluation and ISED Canada submission.

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