RFID: RI12B

User Manual

1 GENERAL

1-1 Purpose and Scope of this document

This document contains the specifications pertinent to the module for 13.56MHz RFID.
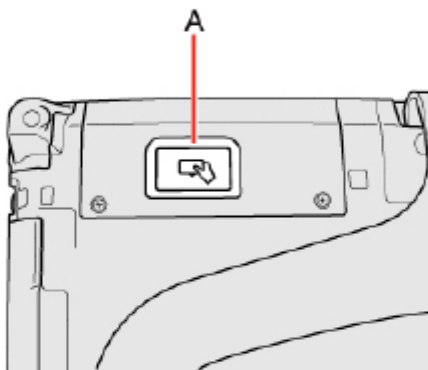
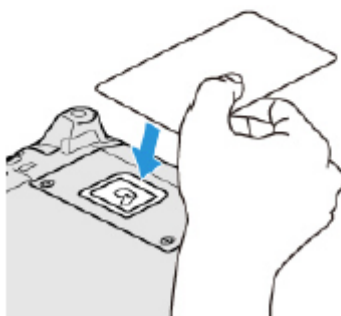| Items	Specification
RFID reader	RF frequency: 13.56 MHz
	TYPE-A and B ISO14443
Operation Environment	Temperature: -10 ～ 50°C　　{14 °F to 122° F}
	Humidity: 30% to 80% RH (No condensation)
Storage Environment	Temperature: –20 °C to 60 °C {–4 °F to 140 °F}
	Humidity: 30% to 90% RH (No condensation)

NFC Devices

<Only for model with NFC sensor>
You can read the data from NFC (Near Field Communication) devices (Contactless Card, etc.)
(RFID Reader is typically used with specialized applications. For further information, ask the system administrator.)
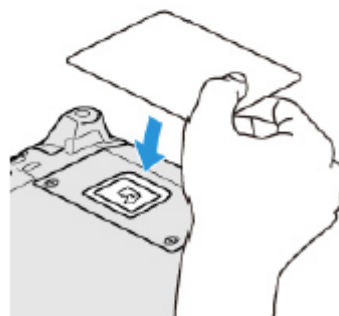
Using NFC sensor

Align the chip device with the (A) mark on the NFC sensor device, and wave the chip device correctly as illustrated. Cards can be waved with either face facing up. If the data is not read, reposition the chip device slightly.

CAUTION

- Wave cards one at a time. If multiple cards are waved simultaneously, proper reading will not be possible.

- If the chip device is held outside of the NFC sensor area or at an angle, or waved incorrectly as in the above illustration (Incorrect), proper reading may not be possible.

Regulatory Information
USA-Federal Communications Commission (FCC)

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.

Caution

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

Labeling

System integrators must include labeling on the end product as "Contains FCC ID: ACJ9TGRI12B".

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 FCC guidelines.

Canada-Industry Canada (IC)

This device complies with Industry Canada licence-exempt RSS standard(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.

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.

Labeling
System integrators must include labeling on the end product as "Contains IC: 216A-CFRI12B"

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 IC guidelines.

Important Notice
Panasonic will not sell radio modules to any third party; and will not allow aftermarket installation by any third party or end user. Instead, they will only be installed within Panasonic Notebooks, Laptops, Tablets and Ultra Mobile Toughbook PCs. Panasonic confirms that the provided operating instruction to user will not include any instructions how to add or remove any of the transmitter modules.