

USB-Connected Multi-Target RFID
Reader/Writer
HXP200/3445-USB-S

User Manual

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■ Revision History

Revision Date	Version	Pages Affected	Description
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■ Table of Contents

1. Overview4

1.1 Features4

2. Specifications of Each Component.....5

2.1 Reader/Writer Module.....5

3. Final Product Management and Compliance Assurance6

3.1 FCC Manual Labeling Requirements6

3.2 FCC RF Exposure Conditions6

Intended Use

1. Overview

This document describes the hardware specifications and external interfaces of the USB-connected multi-target RFID reader/writer **HXP200/3445-USB-S**.

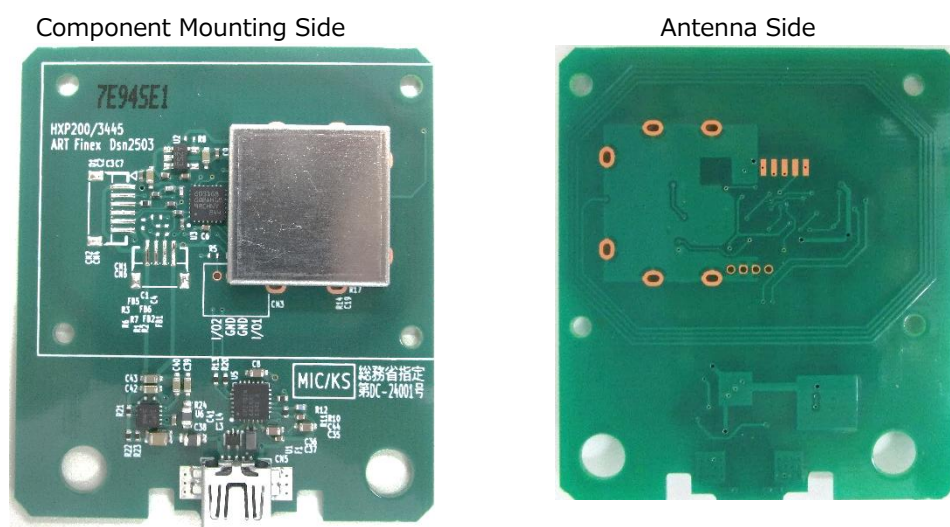
The HXP200/3445 is an embedded module. When using it, a separate interface board or control board is required. When in use, enclose the product in a plastic case or similar to prevent hands or fingers from touching the device.

1.1 Features

The reader/writer is a multi-target device compatible with four types of IC cards: ISO15693, ISO14443 Type-A, FeliCa, and ISO18000-3M3.

- (1) Easily connects to a Windows PC via USB interface, using USB bus power.

The appearance is as follows



2. Specifications of Each Component

2.1 Reader/Writer Module

No.	Item	Description
1	Supported IC Card Standards ^(※1)	ISO/IEC 15693 ISO/IEC 14443 Type-A (MIFARE Classic 含む) FeliCa [®] (ISO/IEC 18092) ISO1800-3M3
2	Carrier Frequency	13.56MHz±30ppm
3	Maximum Conducted Output Power	290mW
4	Host Interface	USB2.0 Mini-B Female Connector
5	Power Supply (Vcc)	Powered via USB Bus DC5V
6	Current Consumption	RF-OFF: Approx. 20 mA RF-ON: Approx. 50 mA (in free space) Approx. 220 mA (when near a metal plate)
7	Operating Temperature & Humidity ^(※2)	-20~75℃、30~90%RH No Condensation
8	Storage Temperature & Humidity ^(※3)	-25~85℃、30~90%RH No Condensation
9	Weight	Approx. 7.5 g

Note 1: Regarding Supported IC Card Standards

IC cards are defined by standard specifications such as ISO and JIS. The IC chips embedded in these cards are manufactured by various vendors for each standard. Some IC chips may include proprietary features, such as security functions or memory specifications, in addition to the standard specification. These IC cards may therefore have differences in command access specifications.

When using our RFID products, always perform pre-testing with the target IC card under your intended usage environment to ensure there are no operational issues.

Note 2: Regarding Operating Temperature & Humidity

When continuously sending access commands to IC cards with RF output, the temperature of the reader/writer module's PCB may rise. Ensure that the installation environment maintains the temperature and humidity within the specified range, and perform sufficient verification.

To prevent condensation, it is recommended to keep the humidity below 50% RH if the ambient temperature exceeds 40 °C.

Note 3: Regarding Storage Temperature & Humidity

The listed conditions are confirmed to have no effect on the product for short-term storage. For long-term storage, it is recommended to store the product in a normal temperature and humidity environment.

3. Final Product Management and Compliance Assurance

Host product manufactures must install the module in compliance with the items described in the Integration Instructions.

3.1 FCC Manual Labeling Requirements

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.

FCC CAUTION

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

3.2 FCC RF Exposure Conditions

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines as this equipment has very low levels of RF energy.