# SONY

# RC-S380/S

**NFC Forum CERTIFIED**

The RC-S380/S is an NFC capable reader which can be connected to a PC via USB port.

This product can be used in Windows thin client terminals and fat client terminals.

| FeliCa / Type A / Type B | Conforms to PC/SC 2.0 |

## FEATURES

**Available for various contactless IC Cards**
Read/Write capability with FeliCa™ card / FeliCa-compatible devices and ISO/IEC 14443 Type A / Type B cards.

**Conforms to PC/SC 2.0 specification**
PC/SC interface for applications is provided to access FeliCa cards and ISO/IEC 14443 Type A / Type B cards.

**Supports major virtualization systems for secure thin client environments**
Suitable for terminal login authentication, etc., using IC cards in major virtualization systems to realize secure thin client environments.

## APPLICATION DEVELOPMENT ENVIRONMENTS

The following Software Development Kit (SDK) lineup supports the development of application software for various operating systems to control the reader:

**SDK for NFC Lite for Windows OS (optional)**
Supports application development for ISO/IEC 14443 Type A / Type B cards, as well as FeliCa cards / FeliCa-compatible devices. Also available is a free-of charge Starter Kit for development and evaluation.

**SDK for NFC <Reference Implementation> for embedded systems (optional)**
For other widely-adopted operating systems, such as Linux, reference source code with transplantable C language is provided to develop applications for ISO/IEC 14443 Type A / Type B cards, as well as FeliCa cards and FeliCa-compatible devices.

FeliCa

# PRODUCT SPECIFICATIONS

| | RC-S380/S |
|---|---|
| Regulation requirements | [Japan] No.: AC-12005<br>[USA] FCC ID: AK8RCS380<br>[Europe] CE RE (2014/53/EU)<br>[UK] S.I. 2017 No.1206 (RE)<br>For details of other regulation requirements, please contact us. |
| Communication method | Conforms to ISO/IEC 18092 (212 kbps / 424 kbps Passive communication mode)<br>Conforms to ISO/IEC 14443 (Type A / Type B) |
| Communication distance *1 | Approx.20 mm (distance from the external surface of the device) *2 |
| Carrier frequency | 13.56 MHz |
| Communication speed (per card and device) | 106 kbps *3, 212 kbps, 424 kbps *4 |
| Compatible cards / devices *5 | FeliCa Standard<br>FeliCa Lite<br>FeliCa Lite-S<br>FeliCa Link<br>NFC Dynamic Tag (FeliCa Plug)<br>Smartphones incorporating a Mobile FeliCa IC chip<br>ISO/IEC 14443 Type A, ISO/IEC 14443 Type B<br>MIFARE Classic<br>MIFARE Ultralight / Ultralight C<br>MIFARE DESFire / DESFire EV1<br>MIFARE Plus<br>SmartMX<br>Jewel / Topaz |
| API | PC/SC Ver.2.0, FeliCa library |
| External interface | USB (full-speed) |
| Operating temperature *6 / humidity (no condensation or frost) | 5 ℃ to 35 ℃ / 10%RH to 90%RH |
| Storage temperature / humidity (no condensation or frost) | -20 ℃ to +60 ℃ / 10%RH to 80%RH |
| Mass | Approx.36 g (excluding USB cable) |
| External dimensions (W × H × D) | Approx.60 mm × 11 mm × 100 mm |
| Operating voltage / Consumption current | DC5 V / MAX.200 mA during operation |
| Supplied accessories | Instruction manual, WEEE mark instructions *7,<br>cardholder, dedicated stand, USB cable (approx.1 m long) |

*1 The communication distance depends on the peripheral environment. Under ideal conditions, this value is unaffected by electromagnetic waves or metallic substances. *2 When the center points of both the card and this product are aligned. *3 When using ISO/IEC14443 Type A / Type B cards. *4 The card and device being used must correspond to 424 kbps communication. *5 Successful operation is not guaranteed with all compatible cards and devices. *6 The ideal temperature for successful operation. *7 Not included in the Chinese model.
Note: Before purchasing this product, please make sure it complies with technical standards, regulations, etc. regarding safety standards of Electricity Act, etc. in your country and region.

# OPERATIONAL ENVIRONMENTS

## For the latest information about operating systems, see "Products" on the FeliCa website : sony.net/felica/

| | |
|---|---|
| OS | Windows 10 Home 32 bit (x86) / 64 bit (x64)<br>Windows 10 Pro 32 bit (x86) / 64 bit (x64)<br>Windows 10 Enterprise 32 bit (x86) / 64 bit (x64)<br>Windows 10 Education 32 bit (x86) / 64 bit (x64)<br>Windows 8.1 32 bit (x86) / 64 bit (x64)<br>Windows 8.1 Pro 32 bit (x86) / 64 bit (x64)<br>Windows 8.1 Enterprise 32 bit (x86) / 64 bit (x64)<br>Windows Embedded 8.1 Industry |

· Please use the latest version of Internet Explorer that is compatible with the operating systems listed above as your web browser.
· Successful operation is not guaranteed in all PCs using the recommended operating systems.
· The performance of this product depends on the specific combination of hardware and software used, even if the conditions in the previous table are satisfied.

Caution: If this product is placed on a metal surface, there is a chance that it operates improperly, such as being unable to communicate with the card.
Therefore, it is recommended to use the device while remaining at least a few centimeters away from metal items such as desks and cabinets and,
preferably, using the dedicated stand included with this product.

# Sony Corporation
## FeliCa Business Division, Service Business Group

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