

RC-S300/S1

[Windows](#)
[macOS^{1\)}](#)


RC-S300/S1 is a USB Reader/Writer that can communicate with various cards, such as FeliCa™ cards and ISO/IEC 14443 cards. This product newly supports macOS¹⁾ while maintaining compatibility with RC-S380/S. Also, a new LED shows the communication status between the card and the reader.

¹⁾ For detail information about using the product in macOS environment, please contact your sales representatives or send us your inquiry via the FeliCa web form.

Supports
Virtualize
Environment

Conforms to
PC/SC2.0

Supports
macOS¹⁾

Equipped
with LED



FEATURES

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.

Conforms to the NFC Forum Specifications (Reader Device)

This product conforms to the NFC Forum Specifications and ISO/IEC 18092, so it is read- and write-compatible with a variety of devices, such as FeliCa cards, FeliCa-compatible devices and ISO/IEC 14443 Type A / Type B cards.

Also, this product is the first PaSoRi product to support communication with ISO/IEC 15693 cards and tags.

Compatible with RC-S380/S

Compatible with RC-S380/S so it can also be used in applications developed for RC-S380/S.

* Depends on the usage and API. For details, contact your Sony representative.

Equipped with LED to monitor the communication status

The communication status between the IC card and the Reader/Writer is indicated by the LED, as follows:

off = inactive; glowing = Ready to communicate the IC card.; flashing = Trying communicating with the card.



APPLICATION DEVELOPMENT ENVIRONMENTS

SDK for NFC Lite (optional)

Supports application development for ISO/IEC 18092 devices, ISO/IEC 14443 Type A / Type B, and ISO/IEC 15693 cards or tags, as well as FeliCa cards and FeliCa-compatible devices.

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 18092 devices, ISO/IEC 14443 Type A / Type B, and ISO/IEC 15693 cards and tags, as well as FeliCa cards and FeliCa-compatible devices.

APPLICATIONS

Logical access control

Online payment

ID authentication

Loyalty service

PRODUCT SPECIFICATIONS

	RC-S300/S1
Regulation requirements	[Japan] Radio law format specification number: AC-21066 [U S A] FCC ID: AK8RCS300 [E U] CE RE (2014/53/EU) [U K] S.I. 2017 No.1206 (RE) For details of other regulation requirements, please contact your Sony representative.
Communication method	Conforms to ISO/IEC 18092 (212 kbps / 424 kbps Passive communication mode) Conforms to ISO/IEC 14443 Type A / Type B Conforms to ISO/IEC 15693
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)	FeliCa: 212 kbps, 424 kbps ISO/IEC 14443: 106 kbps, 212 kbps, 424 kbps, 848 kbps ISO/IEC 15693: 26 kbps
Compatible cards / devices ³⁾	FeliCa Standard FeliCa Lite-S FeliCa Link FeliCa Plug /NFC Dynamic Tag Mobile smartphones with Mobile FeliCa OS ("Osaifu-Keitai") ISO/IEC 14443 Type A / Type B ISO/IEC 15693 NFC Forum Type 2 / 3 / 4A / 4B / 5 Tag MIFARE Classic MIFARE Ultralight, Ultralight C MIFARE DESFire, MIFARE Plus
API	PC/SC Ver.2.0, FeliCa library
External interface	USB Type-B micro (Full Speed)
Operating temperature and humidity (no condensation) ⁴⁾	5 °C to 35 °C 10%RH to 90%RH
Storage temperature and humidity (no condensation)	-20 °C to +60 °C 10%RH to 80%RH
Mass	Approx.33 g (excluding USB cable and Holder)
External dimensions (W × H × D)	Approx.59.5 mm × 10.5 mm × 95 mm
Operating voltage , Consumption current	DC5 V / Max.200 mA during operation
Supplied accessories	Instruction manual, WEEE mark instructions, Holder, USB cable (approx. 70 cm long, USB Type-B micro <-> USB Type-A [to the PC])



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⁾ Successful operation is not guaranteed with all compatible cards and devices. ⁴⁾ Function assurance temperature. For details, see the Product Specifications document.

Note: Before purchasing this product, please make sure it complies with the technical standards, regulations, etc. regarding safety standards of the Electricity Act, etc. in your country and region.

OPERATIONAL ENVIRONMENTS

For the latest information about operating systems, see "Products" on the FeliCa website : sony.co.jp/en/felica/

OS	macOS Sequoia 15 ⁵⁾ macOS Sonoma 14 ⁵⁾ macOS Ventura 13 ⁵⁾ macOS Monterey 12 ⁵⁾ Windows 11 Home 64 bit (x64) Windows 11 Pro 64 bit (x64) Windows 11 Enterprise 64 bit (x64) Windows 11 Education 64 bit (x64) Windows 10 Home 32bit (x86) / 64 bit (x64) Windows 10 Pro 32 bit (x86) / 64 bit (x64) Windows 10 Enterprise 32 bit (x86) / 64 bit (x64) Windows 10 Education 32 bit (x86) / 64bit (x64)
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⁵⁾ For detail information about using the product in macOS environment, please contact your sales representatives or send us your inquiry via the FeliCa web form.

Note1: Successful operation is not guaranteed on all PCs using the recommended operating systems.

Note2: 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.

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