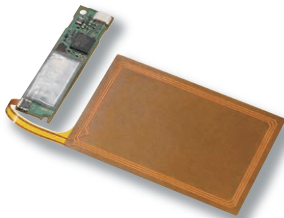


RC-S632



RC-S634

RC-S632 and RC-S634 are Embedded NFC modules for PC, tablet and other consumer electronic devices. These modules are registered by the NFC Forum Certification Program and support the communication with ISO/IEC 14443 Type A / Type B and FeliCa™.

Embedded
NFC Reader

Certified by
NFC Forum

Conforms to PC/
SC 2.0

FEATURES

Optimized for PC, tablet, and consumer electronic devices

The RC-S632 module is suitable for incorporating into any lap top PC. The RC-S634 module has a Flexible Printed Circuit (FPC) antenna, which can easily be embedded into any tablet device.

NFC Forum-certified

Can communicate with any device conforming to the NFC Forum specifications.

Available for various contactless IC cards

Read/Write capability with FeliCa cards, FeliCa-compatible devices, and ISO/IEC 14443 Type A / Type B cards.

Conforms to PC/SC 2.0 specification

A PC/SC API is provided to access FeliCa cards and ISO/IEC 14443 Type A / Type B cards.

APPLICATIONS

- Logical access control
- Online payment
- P2P communication
- ID authentication
- Loyalty service

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.

PRODUCT SPECIFICATIONS

	RC-S632	RC-S634
Regulation requirements *1	Japan: Radio law format specification number : AC-12036 USA: FCC ID: AK8RCS632U Canada: IC No.: 409B-RCS632U Europe: CE RE (2014/53/EU)	Japan: Radio law format specification number : AC-12034 USA: FCC ID: AK8RCS634UA Canada: IC No.: 409B-RCS634UA Europe: CE RE (2014/53/EU)
Communication distance (per card and device) *2	Approx.25 mm	
Communication speed (per card and device)	106 kbps, 212 kbps, 424 kbps	
API	PC/SC Version 2.0, FeliCa library	
Compatible cards	FeliCa Standard FeliCa Lite FeliCa Lite-S FeliCa Link NFC Dynamic Tag (FeliCa Plug) Mobile FeliCa IC mobile phone Pico Pass MIFARE Classic MIFARE Ultralight / Ultralight C MIFARE DESFire / DESFire EV1 MIFARE Plus Topaz / JEWEL ISO/IEC 14443 Type A / Type B ISO/IEC 14443-4 Type A / Type B (T=CL) NFC Forum Type 1, 2, 3, 4A, 4B Tag	
Carrier frequency (per card and device)	13.56 MHz (±50 ppm)	
Operating temperature / humidity (no condensation) *3	-10 °C to 40 °C / 20% to 90%RH, 40 °C to 60 °C / 50%RH or lower	
Storage temperature / humidity (no condensation)	-20 °C to +70 °C / 60%RH or lower	
Mass	Approx.9.8 g	Approx.4.5 g (Drive board1.7 g, Antenna2.8 g)
External dimensions (W x H x D)	Approx.50 mm × 2.7 mm × 40 mm	Drive board : approx.44 mm × 2.5 mm × 12 mm Antenna : approx.58 mm × 0.5 mm × 38 mm
External interface	USB 2.0 (full-speed)	
Operating voltage	DC5 V (supplied via USB)	
Consumption current	Max.140 mA	Max.160 mA

*1 For details of other regulatory compliance, please contact us directly, using the details at the foot of this page.

*2 The communication distance depends on the operating environment. Under ideal conditions, this value is unaffected by electromagnetic waves or metallic substances.

*3 Function assurance temperature.

Note 1: Conforming to the RoHS Directive (a European environmental regulation), a halogen-type flame retardant is not used for the printed circuit board. Also, lead-free solder is used and the design is environmentally-friendly.

- Features, design, and specifications are subject to change without notice.
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- FeliCa is a contactless IC card technology developed by Sony Corporation.
- All other trademarks are the property of their respective owners.

Sony Corporation

FeliCa Business Division, Service Business Group

Sony City Osaki 2-10-1 Osaki Shinagawa-ku, Tokyo, 141-8610 Japan

FeliCa website

sony.net/felica/

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