

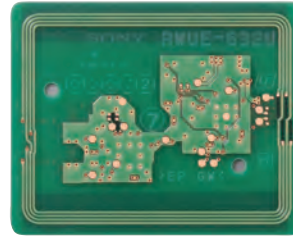
RC-S632 and RC-S634 are Embedded NFC modules for PC, tablet and other consumer electronic devices. These modules are registered by the NFC Forum Certification Program and support the communication with ISO/IEC 14443 Type A / Type B and FeliCa™.

RC-S632 RC-S634

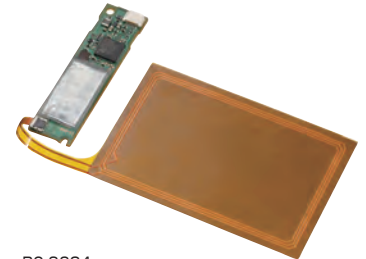
Embedded NFC reader module

Certified by NFC Forum

Conforms to PC/SC 2.0



RC-S632



RC-S634

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
- ID authentication
- Online payment
- Loyalty service
- P2P communication

APPLICATION DEVELOPMENT ENVIRONMENTS

- **"SDK for NFC Lite" for Windows OS**
Supports applications for ISO/IEC14443 Type A / Type B cards, as well as FeliCa cards, FeliCa-compatible devices and Mobile Wallet Phones (Osai-fu-Keitai).
- **"SDK for NFC <Reference Implementation>" for embedded devices**
For other widely-adopted operating systems, such as Linux, reference source code written in C language (for easy porting) is provided to develop applications for ISO/IEC14443 Type A / Type B cards, as well as FeliCa cards, FeliCa-compatible devices and Mobile Wallet Phones.

PRODUCT SPECIFICATIONS

For more details of specifications, see the "Product Specifications" documents.

	RC-S632	RC-S634
Regulation requirements*1	·Japan: Radio law format specification number: AC-12036	·Japan: Radio law format specification number: AC-12034
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, Near Field Proximity API, FeliCa library	
Compatible cards	<ul style="list-style-type: none"> ·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 board 1.7 g, Antenna 2.8 g)
External dimensions (W x H x D)	Approx. 50 mm x 2.7 mm x 40 mm	Drive board : approx. 44 mm x 2.5 mm x 12 mm, Antenna : approx. 58 mm x 0.5 mm x 38 mm
External interface	USB 2.0 (full-speed)	
Operating voltage	DC 5 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.

· Specifications and external appearance are subject to change without prior notice.

· FeliCa is a trademark of Sony Corporation.

· FeliCa is a contactless IC card technology developed by Sony Corporation.

· Other system names and product names described in this catalog are generally registered trademarks or trademarks belonging to their respective development manufacturers. Note that ™ and ® symbols are sometimes purposely omitted from this text.

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