RC-S660/U is an embedded NFC module for PCs, tablets and other consumer electronic devices. This module supports communication with ISO/IEC 14443 Type A / Type B and ISO/IEC 15693 cards and tags, as well as FeliCa™. Its compact design makes it easier to incorporate into a variety of devices.

| Embedded NFC Reader | Conforms to PC/SC 2.0 | CCID Protocol Compliant |

FEATURES

Optimized for PC, tablet, and other consumer electronic devices

The RC-S660/U module is suitable for incorporating into any laptop PC. While maintaining communication performance comparable to that of conventional products, the form factor of the product is reduced by about 40 percent, enabling its incorporation into more versatile compact devices.

Available for various contactless IC cards

The module is read/write compatible with FeliCa cards, FeliCa-compatible devices, ISO/IEC 14443 Type A / Type B and ISO/IEC 15693 cards and tags.

Conforms to PC/SC 2.0 specification

A PC/SC API is provided to access FeliCa cards, ISO/IEC 14443 Type A / Type B and ISO/IEC 15693 cards and tags.

CCID protocol compliant

CCID protocol allows PC/SC access on many platforms that support smart cards.

APPLICATIONS

· Logical access control   · Online payment   · ID authentication   · Loyalty service

APPLICATION DEVELOPMENT ENVIRONMENTS

SDK for NFC Lite for Windows OS (optional)

Supports application development for ISO/IEC 14443 Type A / Type B and ISO/IEC 15693 cards and tags, as well as FeliCa cards / FeliCa-compatible devices.
• FeliCa Library is API-compatible with applications for RC-S600/620/632/634.
• PC/SC applications have API-compatibility with RC-S632/634 applications.

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 and ISO/IEC 15693 cards and tags, as well as FeliCa cards and FeliCa-compatible devices.

FeliCa

PRODUCT SPECIFICATIONS

	RC-S660/U
Regulation requirements [1]	Japan: Radio law format specification number: AC-20107 USA: FCC ID: AK8RCS660U Canada: IC No.: 409B-RCS660U EU: EN 300 330
Communication distance (per card and device) [2]	Approx.25 mm
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
API	PC/SC version 2.0 FeliCa Library (Windows) FeliCa, Type A, Type B, ISO/IEC 15693 Card Command Library (Basic Suite)
Compatible cards	FeliCa Standard FeliCa Lite-S FeliCa Link FeliCa Plug/NFC Dynamic Tag Mobile phones with Mobile FeliCa OS ("Osaifu-Keitai") ISO/IEC 14443 Type A ISO/IEC 14443 Type B ISO/IEC 15693 MIFARE NFC Forum Type 2 / 3 / 4A / 4B / 5 Tag
Carrier frequency (per card and device)	13.56 MHz
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.4 g
External dimensions (W x H x D)	Approx.45 mm × 2.3 mm × 25 mm
External interface	USB 2.0 (full-speed)
Operating voltage	DC3.3 V
Consumption current	Max.140 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.