The NFC Dynamic Tag is a wireless module with a cable interface to enable data transmission between NFC reader (Android smartphone, NFC port, PaSoRi, etc.) and other electronic equipment or gadgets.

- **Cable and wireless interface**
  A cable interface uses our own triple-line half-duplex communication and can be controlled even with a low-speed host CPU.

  For development of applications on the reader side, it is possible to use existing products, such as SDK for NFC, which are able to access the wireless interface of the NFC Dynamic Tag.

  * For any application development the customer is required to follow the specifications on the cable side require development by the client based on specifications sheets.
  * We are not planning to offer an interface library control library.

- **Low current consumption**
  The current consumption during operation is less than 1mA and during standby is kept at 0.1 μA or less to provide power supply conditions suitable for a battery-operated device.

- **Magnetic field detection function**
  The NFC Dynamic Tag includes a function by which the magnetic field generated by the reader can be detected and the host CPU informed.

- **Emulation of NFC forum Type 3 Tag**
  The NFC Dynamic Tag can emulate an NFC Type 3 Tag if the data from the host CPU in response to any commands sent by the reader follows the specifications of the NFC Forum. The emulated device can communicate with any reader, conforming to the specifications of the NFC Forum.

![Typical System Layout](image)

* This product does not have a nonvolatile memory. If the power is cut, the internal data is lost. Unlike a FeliCa card there is no function to constantly store data.
* The 212 kbps is the modulation speed of the RF interface.
* The effective speed of data transmission is dependent on the processing capacity of the controller of the cable interface and the wireless interface system.
* After integrating into any (customer) device or gadget, be sure to confirm the communications characteristics of the device with which the NFC Dynamic Tag should respond.
### PRODUCT SPECIFICATIONS

**NFC Dynamic Tag (FeliCa Plug) chip**

<table>
<thead>
<tr>
<th>Section</th>
<th>RC-S926 Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless</td>
<td>Conforms to ISO/IEC 18092 (212 kbps Passive communication mode)*1</td>
</tr>
<tr>
<td>Communication method</td>
<td>Triple-wire half-duplex serial interface (Sony's specification)</td>
</tr>
<tr>
<td>Operational frequency</td>
<td>13.56 MHz</td>
</tr>
<tr>
<td>Communication speed</td>
<td>212 kbps</td>
</tr>
<tr>
<td>Operational temperature</td>
<td>-25 °C to +40 °C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-40 °C to +125 °C*2</td>
</tr>
<tr>
<td>Communication speed</td>
<td>Dependent on data processing speed of Host CPU (Max. 1 Mbps)</td>
</tr>
<tr>
<td>Consumption current (25°C)</td>
<td>Operation mode: 1 mA or less (no load)</td>
</tr>
<tr>
<td></td>
<td>Standby mode: (RF non-detection): 0.1μA or less</td>
</tr>
<tr>
<td>Package</td>
<td>VQON24</td>
</tr>
<tr>
<td>Mounting method</td>
<td>Rework soldering</td>
</tr>
<tr>
<td>External dimensions (W×H×D)</td>
<td>3.8 mm × 3.8 mm × 0.55 mm (Max.)</td>
</tr>
</tbody>
</table>

*1 Depends on Host CPU.

*2 Storage temperature of the IC chip in its standalone form.

**NFC Dynamic Tag (FeliCa Plug) module**

<table>
<thead>
<tr>
<th>Distance</th>
<th>RC-S801 Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless</td>
<td>Conforms to ISO/IEC 18092 (212 kbps Passive communication mode)*1</td>
</tr>
<tr>
<td>Communication method</td>
<td>Triple-wire half-duplex serial interface (Sony's specification)</td>
</tr>
<tr>
<td>Operational frequency</td>
<td>13.56 MHz</td>
</tr>
<tr>
<td>Communication speed</td>
<td>212 kbps</td>
</tr>
<tr>
<td>Communication speed</td>
<td>Dependent on data processing speed of Host CPU (Max. 1 Mbps)</td>
</tr>
<tr>
<td>Usage temperature/humidity</td>
<td>0 °C to 40 °C / 20% RH to 90% RH</td>
</tr>
<tr>
<td></td>
<td>40 °C to 50 °C / 50% RH or less</td>
</tr>
<tr>
<td>External dimensions (W×H×D)</td>
<td>24 mm × 20 mm × 2.95 mm</td>
</tr>
<tr>
<td>Mass</td>
<td>Approx. 0.73 g</td>
</tr>
<tr>
<td>Connector</td>
<td>FPC/FFC 8-pole bottom connection type, pitch: 0.5 mm</td>
</tr>
<tr>
<td></td>
<td>Applicable FPC/FFC thickness: 0.3 mm</td>
</tr>
</tbody>
</table>

*1 The communications distance varies according to the usage environment where the device is used. These are values in an ideal environment with no influence from any external electrical waves or metal. They are performance values with the reader/writer antenna and RC-S801 / S802 in a horizontal state and with the respective center points located on the same line.

*2 Compared to the RC-S801, the communication area is limited.

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* 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.