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## RA6Wx Group

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This document compiles useful information for each stage of device selection, development, and mass production. Use this information, materials, and application notes as a handbook when developing.

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# 1. Device Selection

This section summarizes the information that is useful for the preliminary survey phase and for the evaluation phase of device performance and features when selecting the device.

## 1.1 Survey Phase

| Num | Item                | Content          | Product        | Link                    |
|-----|---------------------|------------------|----------------|-------------------------|
| 1   | Survey product      | Wi-Fi MCUs       | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 2   |                     | Blog             | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 3   |                     | White Paper      | RA6Wx/RRQ610x1 | <a href="#">Doc</a>     |
| 4   |                     | Video and Events | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 5   |                     | Applications     | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 6   |                     | Product Selector | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 7   | Product information | Overview         | RA6W1          | <a href="#">Website</a> |
| 8   |                     |                  | RRQ61001       | <a href="#">Website</a> |
| 9   |                     |                  | RRQ61051       | <a href="#">Website</a> |
| 10  |                     | Datasheet        | RA6W1          | <a href="#">Doc</a>     |
| 11  |                     |                  | RRQ61001       | <a href="#">Doc</a>     |
| 12  |                     |                  | RRQ61051       | <a href="#">Doc</a>     |

## 1.2 Evaluation Phase

| Num | Item                      | Content  | Product        | Link                    |
|-----|---------------------------|--|----------------|-------------------------|
| 1   | Evaluation board and kits | Overview   | RA6Wx          | <a href="#">Website</a> |
| 2   |                           | Manual   | RA6Wx          | <a href="#">Doc</a>     |
| 3   |                           | Getting Started Guide  | RA6W1          | <a href="#">Doc</a>     |
| 4   |                           | Quick Start Bundle   | RA6W1          | <a href="#">Website</a> |
| 5   |                           | Order EVB  | RA6W1          | <a href="#">Website</a> |
| 6   | Certificate               | Wi-Fi Alliance Certification                                     | RA6W1          | <a href="#">Doc</a>     |
| 7   |                           |  | RRQ61001       | <a href="#">Doc</a>     |
| 8   | Document                  | Official Renesas Electronics RA Family Beginner's Guide          | RA6Wx/RRQ610x1 | <a href="#">Doc</a>     |
| 9   |                           | RA Family NOMENCLATURE (the meaning of character in part number) | RA6Wx/RRQ610x1 | <a href="#">Doc</a>     |

## 2. Design and Development

This section summarizes useful information for product design and development.

| Num | Item                    | Content                                     | Product        | Link                    |
|-----|-------------------------|---|----------------|-------------------------|
| 1   | Software design         | RAFW FSP Examples                           | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 2   |                         | RAFW Flexible Software Package              | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 3   | Development environment | e <sup>2</sup> studio (IDE and Coding Tool) | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 4   |                         | Renesas Electronics Flash Programmer        | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 5   |                         | SmartBond™ Development Tools                | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 6   | Manual                  | Host Interface Manual                       | RA6W1          | <a href="#">Doc</a>     |
| 7   |                         | Getting Started with Matter                 | RA6W1          | <a href="#">Doc</a>     |
| 8   |                         | TWT Manual                                  | RA6W1          | <a href="#">Doc</a>     |
| 9   |                         | Renesas Electronics RAFW FSP Manual         | RA6Wx/RRQ610x1 | <a href="#">Website</a> |

### 3. Mass Production

This section summarizes useful information for mass product.

| Num | Item                                    | Content                       | Product        | Link                    |
|-----|---|-------------------------------|----------------|-------------------------|
| 1   | <b>Connectivity<br/>Production Line</b> | Overview                      | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 2   |   | Quick Start Guide             | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 3   |   | Manual                        | RA6Wx/RRQ610x1 | <a href="#">Doc</a>     |
| 4   |   | Production Line Tool Software | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 5   |   | Related Boards and Kits       | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 6   |   | Videos and Training           | RA6Wx/RRQ610x1 | <a href="#">Website</a> |

## 4. Support Site Information

You can get help from our technical staff and community.

| Num | Item         | Content                          | Product        | Link                    |
|-----|--------------|----------------------------------|----------------|-------------------------|
| 1   | Support site | FAQ (Frequently asked inquiries) | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 2   |              | Forums (Community)               | RA6Wx/RRQ610x1 | <a href="#">Website</a> |
| 3   |              | Technical Support Site           | RA6Wx/RRQ610x1 | <a href="#">Website</a> |

## 5. Revision History

| Revision | Date         | Description      |
|----------|--------------|------------------|
| 1.00     | Jan 29, 2026 | Initial release. |

For the most up-to-date information, see the product pages on our website (<https://www.renesas.com/en>).