By Category PDF

Category Wireless Modules

Modules

Wireless Modules

Includes LAPIS Technology products

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ROHM Wireless Module Technologies

ROHM group is developing Wireless Communication devices in a broad range of fields.

Wi-SUN Communication Modules (Specified Low Power Radio Modules)

- 920MHz specified low-power wireless module
- Excellent receiver sensitivity
- Built-in antenna eliminates the need for high-frequency designs
- Transmitting power pre-adjusted
- MAC address included
- Japan radio law certified
- Built-in system LSI that made in LAPIS Technology

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Supply Voltage (V)</th>
<th>Operating Temperature (°C)</th>
<th>Host I/F</th>
<th>Compatible Standards</th>
<th>Radio law Certification</th>
<th>Dimensions (mm)</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP35A1</td>
<td>2.7 to 3.6 (Single power)</td>
<td>−20 to +80</td>
<td>UART</td>
<td>Wi-SUN Route-B</td>
<td>TELEC</td>
<td>22.0×33.5×3.9</td>
<td>Connector joint type 0.5mm pitch, 20pin</td>
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<tr>
<td>BP35C0</td>
<td>2.6 to 3.6 (Single power)</td>
<td>−30 to +85</td>
<td>UART</td>
<td>Wi-SUN Route-B/HAN</td>
<td>TELEC</td>
<td>15.0×19.0×2.6</td>
<td>SMD 1.27mm pitch, 28pin</td>
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<tr>
<td>BP35C0-J11</td>
<td>2.6 to 3.6 (Single power)</td>
<td>−30 to +85</td>
<td>UART</td>
<td>Wi-SUN Route-B/HAN/Enhanced HAN</td>
<td>TELEC</td>
<td>15.0×19.0×2.6</td>
<td>SMD 1.27mm pitch, 28pin</td>
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<tr>
<td>BP35C5</td>
<td>2.6 to 3.6 (Single power)</td>
<td>−30 to +85</td>
<td>UART</td>
<td>Wi-SUN FAN</td>
<td>TELEC/FCC</td>
<td>15.0×19.0×2.6</td>
<td>SMD 1.27mm pitch, 30pin</td>
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</tbody>
</table>
**Bluetooth® Modules**

- Low power consumption and the best solution for the instruments required a long-life of coin type/button battery
- Bluetooth® low energy single mode module
- Built-in pattern antenna and RF characteristic adjusted before shipment
- Certified radio regulation: TELEC, FCC, ISED (IC), CE

### 13.56MHz (NFC) Wireless Charger Modules

ROHM’s 13.56MHz wireless charger module is a board-integrated module with an antenna. Since the development man-hours for antenna design and matching adjustment can be significantly reduced, the wireless charging function can be easily realized. It contributes to the compact, connectorless, waterproof and dustproof housing design required for wearable devices and IoT devices.

#### Wireless Charger Modules

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Transmitter/Receiver</th>
<th>Module type</th>
<th>Module size (mm)</th>
<th>Weight (g)</th>
<th>Supply Voltage (V)</th>
<th>Output Power (Max) (mW)</th>
<th>Feeding Distance (d) (mm)</th>
<th>Operating Temperature (°C)</th>
<th>Interface</th>
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<tbody>
<tr>
<td>BP3621</td>
<td>Power Transmitter</td>
<td>Wide Range type</td>
<td>35.0x26.0x1.5</td>
<td>0.80</td>
<td>4.5 to 5.5</td>
<td>–</td>
<td>–</td>
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<td>8pin, 0.5mm pitch, FPC connector</td>
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<tr>
<td>BP3622</td>
<td>Power Receiver</td>
<td>Wide Range type</td>
<td>24.0x17.0x1.5</td>
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<td>10</td>
<td>–10 to +50</td>
<td>8pin, 0.5mm pitch, FPC connector</td>
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### EnOcean® Communication Modules

EnOcean® products are based on energy harvesting battery-less/wireless telecommunication technology.

**Feature**
- EnOcean® Wireless Standard (ISO/IEC 14543-3-10/11)
- Built-in antenna eliminates the need for high-frequency designs
- Japan radio law certified

#### EnOcean® Communication Modules/Devices

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<td>928MHz</td>
<td>Japan</td>
<td>ECO 200/260</td>
<td>PTM 535J</td>
<td>STM 400J</td>
<td>TCM 410J</td>
<td>STM 429J</td>
<td>STM 431J</td>
<td>HSM 100</td>
<td>USB 400J/500J</td>
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<td>Europe-China</td>
<td>ECO 200/260</td>
<td>PTM 535</td>
<td>STM 300</td>
<td>TCM 310</td>
<td>STM 329</td>
<td>STM 331</td>
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<td>PTM 535U</td>
<td>STM 300U</td>
<td>TCM 310U</td>
<td>STM 320U</td>
<td>STM 331U</td>
<td>HSM 100</td>
<td>USB 500U</td>
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<tr>
<td>921MHz</td>
<td>Asia</td>
<td>ECO 200/260</td>
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<td>–</td>
<td>–</td>
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*EnOcean® is a registered trademark of EnOcean GmbH.

*This product (928MHz frequency band) is permitted as "specified low-power radio station" in Japanese radio law.