

Featured Products



The industry's first* to support 1,000-device mesh networks

Wi-SUN FAN Wireless Communication Module

BP35C5

*ROHM January 2021 study

Enables configuration of 1,000-device Sub-GHz mesh networks

- Supports large-scale mesh networks ideal for smart cities
- Sub-GHz wireless provides long-distance communication with low power consumption

Robust transmission • Achieves high reliability wireless communication

- Integrated automatic communication path and channel hopping functions ensure stable, high reliability wireless transmission

Certified modules allow for quick and easy development

- Certification under both "Wi-SUN" and "FCC & Japan's Radio Law" significantly reduces customer development load, enabling immediate evaluation with comprehensive support



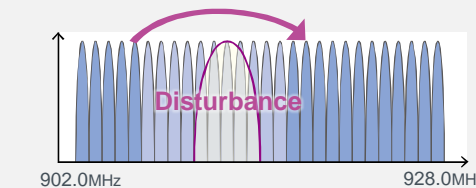
■ Wi-SUN FAN

• Large-Scale Mesh Networks

Automatic communication path optimization function achieves high reliability wireless transmission

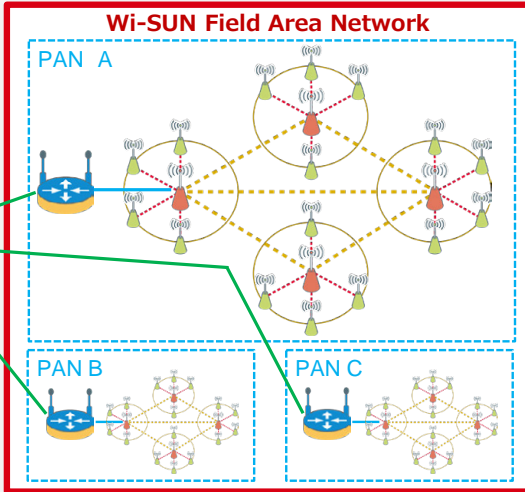
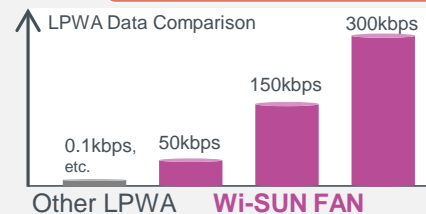
• Channel Hopping

Improved resistance against noise and interference



• High Data Rate

Low power consumption minimizes radio wave interference



Head/Back End Control Center

WAN Relay

- Gateway
- Repeater
- Terminal

■ Usage Cases

• Smart Cities

- Streetlamps
- Traffic lights
- Smart meters
- Solar panels
- Parking lots
- Bicycle lots
- Other infrastructure



• Smart Buildings

- AC control
- Lighting control
- Building maintenance

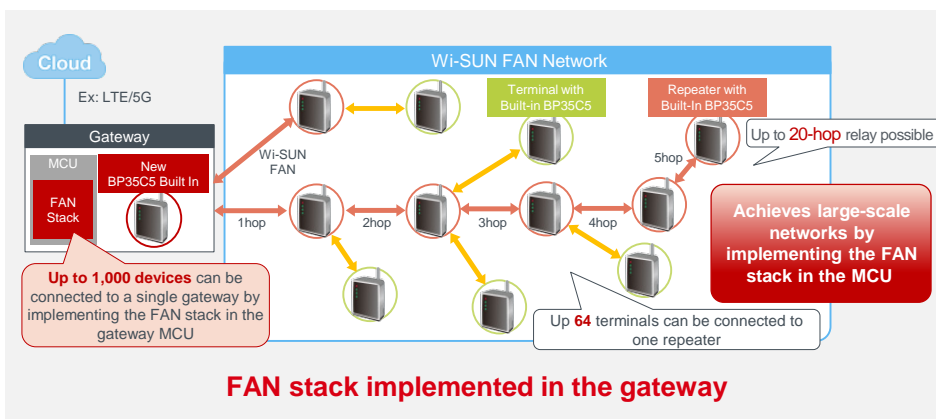


• Smart Logistics

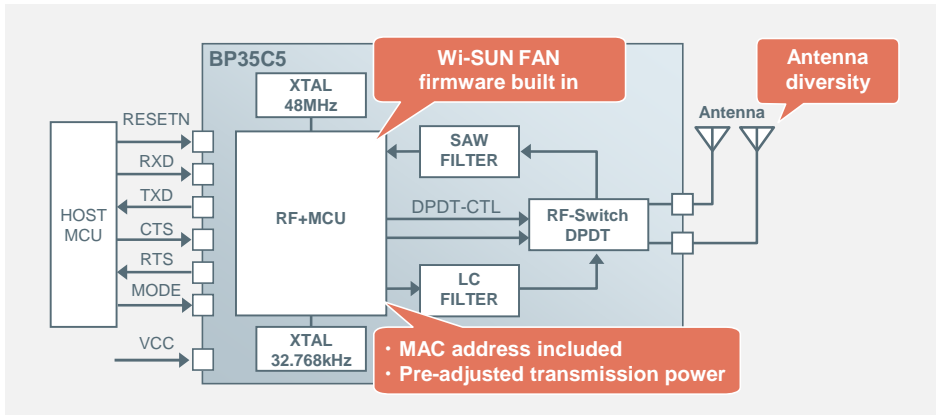
- Automated warehouses
- Forklifts
- AGV (Automated Guided Vehicles)



Solutions for Large-Scale Systems (1,000 Devices)



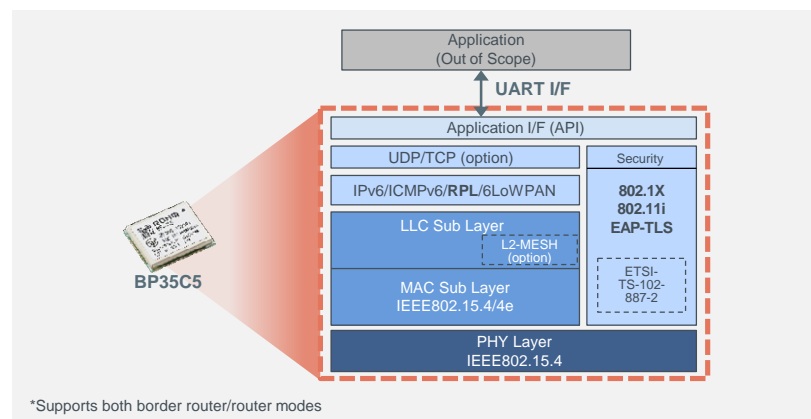
Block Diagram



Wi-SUN Communication Modules Lineup

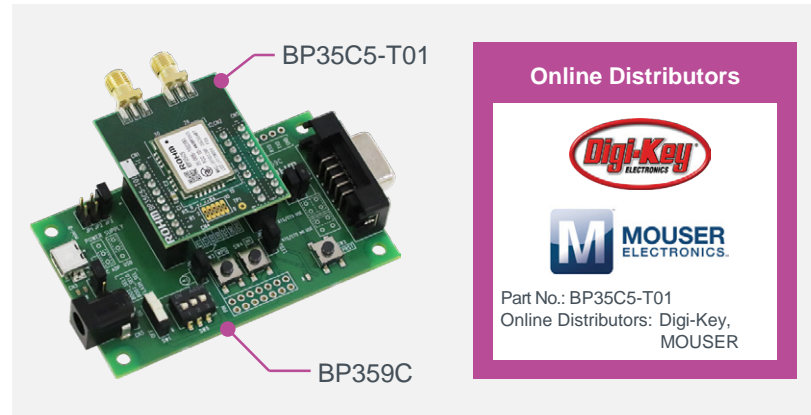
| Part No. | Supply Voltage [V] | Wi-SUN Profile | Frequency [MHz] | Antenna | Mounting Type | Interface | Radio Law | Operating Temp. [°C] | size [mm] |
|------------|-------------------------------------|----------------------|-----------------|---------|---------------|-----------|---|----------------------|---------------|
| BP35C0 | 2.6 to 3.6 (Single power supply) | B Route/HAN | 922.5 to 927.5 | None | Surface mount | UART | ARIB STD-T108 (Japan) | -30 to +85 | 15.0×19.0×2.6 |
| BP35C0-J11 | 2.6 to 3.6 (Single power supply) | B Route/Enhanced HAN | 922.5 to 927.5 | None | Surface mount | UART | ARIB STD-T108 (Japan) | -30 to +85 | 15.0×19.0×2.6 |
| BP35C5 | 2.6 to 3.6 (Single power supply) | FAN | 902.0 to 928.0 | None | Surface mount | UART | ARIB STD-T108 (Japan), FCC_15C (North America) | -30 to +85 | 15.0×19.0×2.6 |

Software Stack



Note: Wi-SUN FAN software copyright and other intellectual property rights belong to Kyoto University

Evaluation Board



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