

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

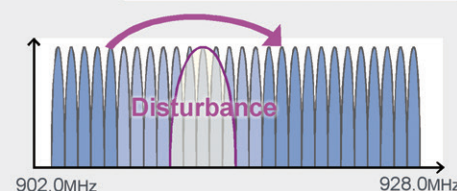
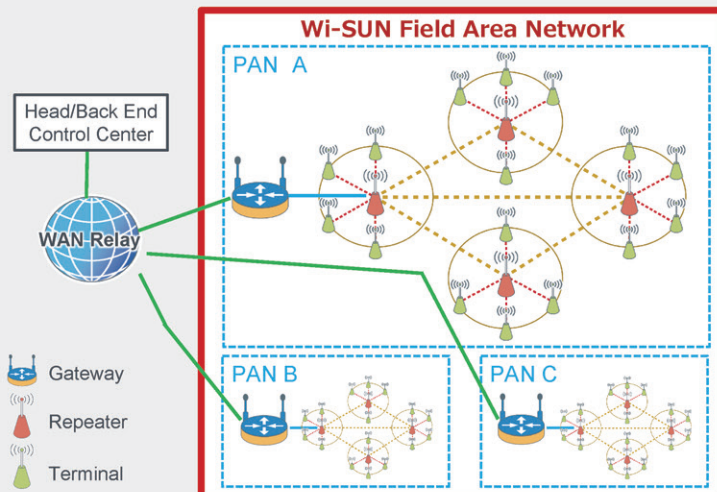
Automatic communication path optimization function achieves high reliability wireless transmission

• Channel Hopping

Improved resistance against noise and interference

• High Data Rate

Low power consumption minimizes radio wave interference



■ 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

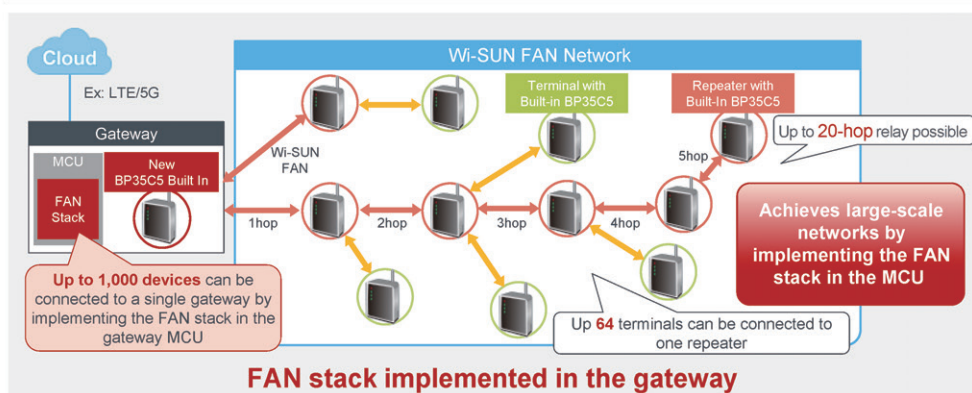


• Smart Logistics

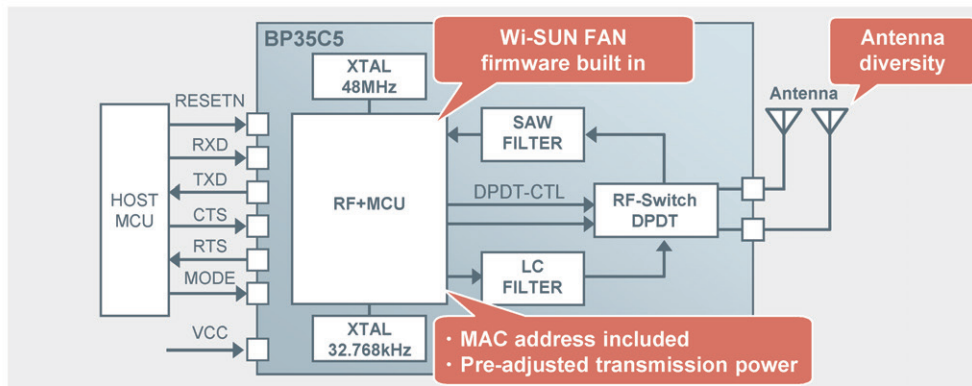
Automated warehouses
Forklifts
AGV (Automated Guided Vehicles)



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



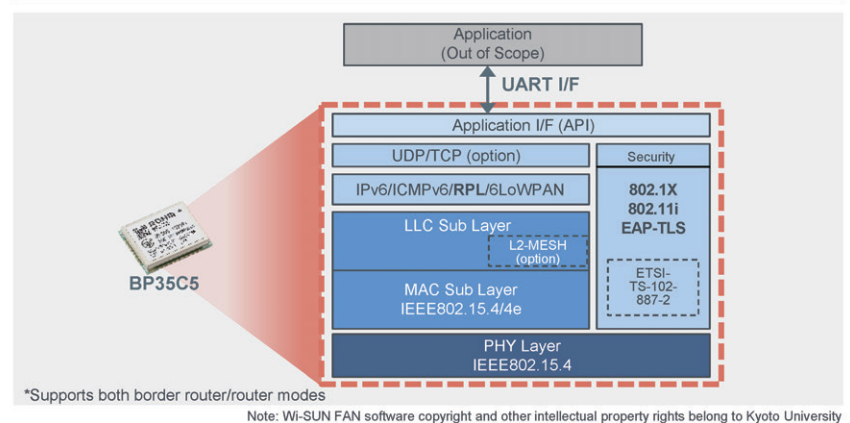
Block Diagram



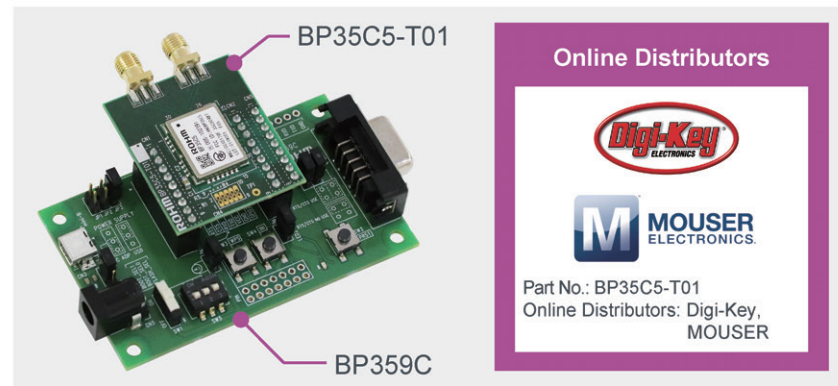
Wi-SUN Communication Modules Lineup

Part No.	Supply Voltage (V)	Wi-SUN Profile	Frequency (MHz)	Antenna	Mounting Type	Interface	Radio Law Compliance	Operating Temp (°C)	Size (mm)
BP35A1	2.7 to 3.6 (Single power supply)	B Route	922.5 to 927.5	Built-in	Connector	UART	ARIB STD-T108 (Japan)	-20 to +80	22.0×33.5×3.9
BP35C0	2.6 to 3.6 (Single power supply)	B Route/HAN	922.5 to 927.5	—	Surface mount	UART	ARIB STD-T108 (Japan)	-30 to +85	15.0×19.0×2.6
BP35C2	4.5 to 5.5 (Single power supply)	B Route/HAN	922.5 to 927.5	Built-in	USB	USB	ARIB STD-T108 (Japan)	-20 to +50	21.4×49.7×8.5
BP35C0-J11	2.6 to 3.6 (Single power supply)	B Route/Enhanced HAN	922.5 to 927.5	—	Surface mount	UART	ARIB STD-T108 (Japan)	-30 to +85	15.0×19.0×2.6
New BP35C5	2.6 to 3.6 (Single power supply)	FAN	902.0 to 928.0	—	Surface mount	UART	ARIB STD-T108 (Japan), FCC_15C (North America)	-30 to +85	15.0×19.0×2.6

Software Stack



Evaluation Board



Online Distributors



Part No.: BP35C5-T01
Online Distributors: Digi-Key,
MOUSER



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The content specified in this document is correct as of January 1st, 2021.