Compact Wireless LAN Module with Integrated Antenna

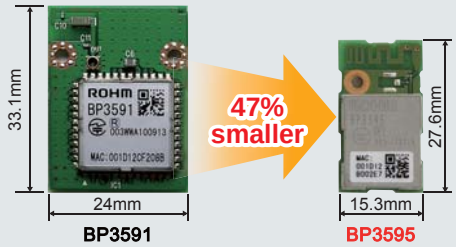
BP3595

Providing wireless LAN communication in a smaller form factor

Product Outline

The BP3595 is our newest wireless LAN module that delivers the same functionality as the BP3591 (IEEE802.11b/g/n-compliant type with antenna) but in a smaller size. Features include software compatibility with both the BP3591 and BP3599, making it possible to take advantage of previous development assets, an optimized antenna configuration that eliminates the need for high-frequency designs, and Japan Radio Law certification, enabling immediate operation after embedding in customer applications. In addition, the compact form factor contributes to set miniaturization.

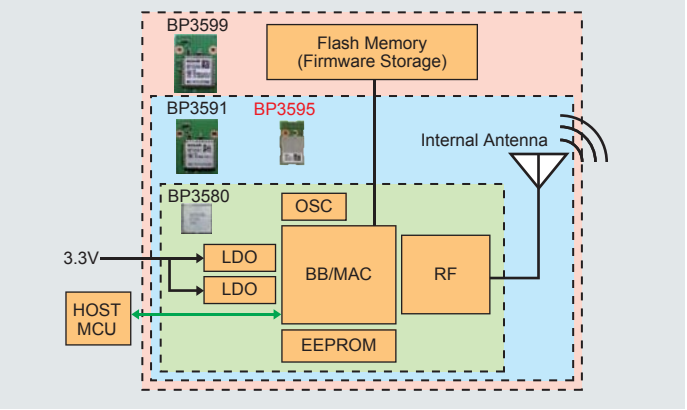
Maintains functionality in a smaller size



Features the same functions as the BP3591 (IEEE802.11b/g/n-compliant wireless LAN module with built-in antenna) but in a more compact size

*The BP3595 is not compatible with external antennas

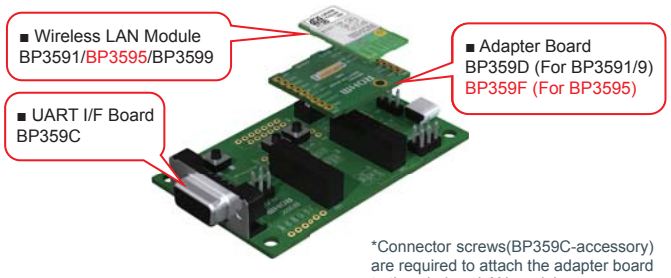
Wireless LAN module lineup



Specifications (BP3595)

Wireless LAN Standards	IEEE802.11b, IEEE802.11g IEEE802.11n, IEEE802.11i
Host I/F	UART (921600bps)
	SDIO Ver. 2.00 (High-Speed Mode)
	USB2.0 (High-Speed Mode)
Communication Frequency	2,400MHz to 2,483.5MHz (Ch1 to Ch13)
Transmission Power	IEEE802.11b: 15dBm±2dB
	IEEE802.11g: 13dBm±2dB
	IEEE802.11n: 12dBm±2dB
Communication Rate	IEEE802.11b: 1 to 11Mbps
	IEEE802.11g: 6 to 54Mbps
	IEEE802.11n: 6.5 to 72.2Mbps
Access Method	CSMA/CA
Access Mode	Infrastructure/Ad-hoc
Security	64bit/128bit WEP, TKIP, AES
Supply Voltage	3.3V
Current Consumption	Continuous Data Transmission: 300mA Typ.
	Receiving: 200mA Typ.
	Sleep: 1mA Typ.
Operating Environment	Temp: -40°C to +85°C
	Humidity: <85% (No condensation)

Evaluation Board (UART) [3-Point Configuration]



*Connector screws(BP359C-accessory) are required to attach the adapter board to the wireless LAN module

Applications

- AV/industrial equipment, sensor/home networks
- Wireless LAN routers and network devices
- Smartphones and connected peripherals
- Products and systems that cannot provide wireless LAN functionality due to insufficient MCU capability or prohibitive development costs

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