

Compact Wireless LAN Module with Integrated Antenna

BP3595

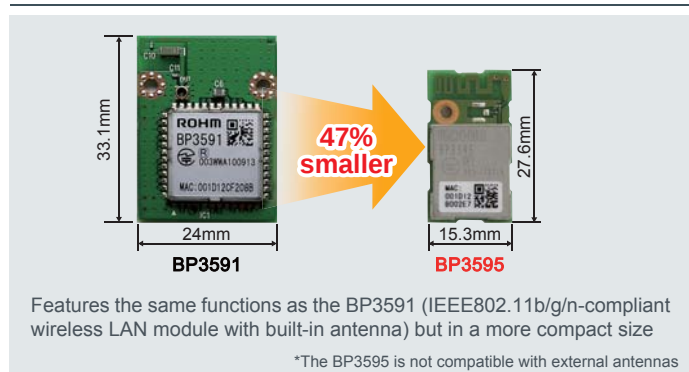


Providing wireless LAN communication in a smaller form factor

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.

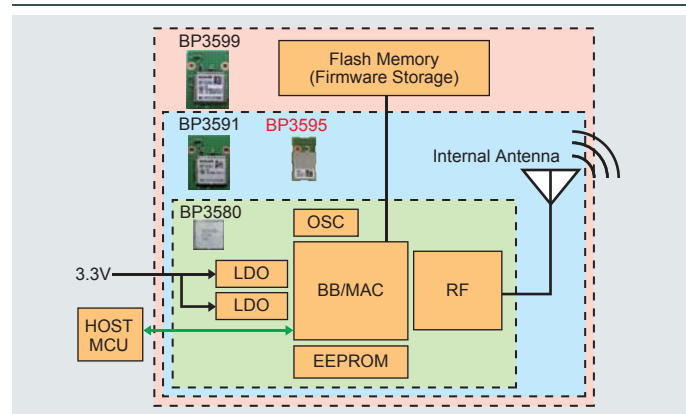
■ Maintains functionality in a smaller size



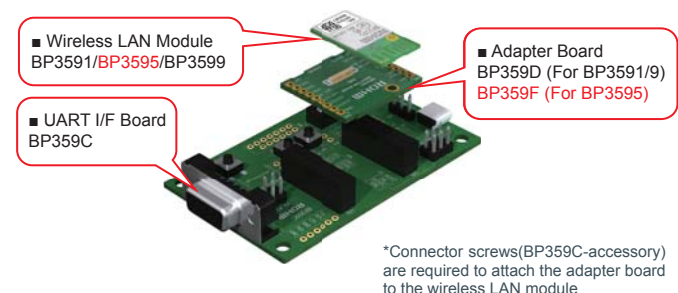
■ Specifications (BP3595)

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)

■ Wireless LAN module lineup



Evaluation Board (UART) [3-Point Configuration]



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

The content specified herein is for the purpose of introducing ROHM's products (hereinafter "Products"). If you wish to use any such Product, please be sure to refer to the specifications, which can be obtained from ROHM upon request. Great care was taken in ensuring the accuracy of the information specified in this document. However, should you incur any damage arising from any inaccuracy or misprint of such information, ROHM shall bear no responsibility for such damage. The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM and other parties. ROHM shall bear no responsibility whatsoever for any dispute arising from the use of such technical information. If you intend to export or ship overseas any Product or technology specified herein that may be controlled under the Foreign Exchange and the Foreign Trade Law, you will be required to obtain a license or permit under the Law.

The content specified in this document is correct as of 8th January, 2014.