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.
- Humidity: <85% (No condensation)

Operating Environment
- Temp: -40°C to +85°C
- Humidity: <85% (No condensation)

Evaluation Board (UART) [3-Point Configuration]
- Wireless LAN Module
- UART I/F Board
- Adapter Board

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