

AirPrime® BX3100/3105 Specifications

Specifications

Wi-Fi BLE Classic

Wi-Fi

- 802.11 b/g/n
- 2.4GHz 1x1 SISO

Bluetooth

- 4.2 dual-mode support
- Simultaneous BLE and Classic Bluetooth with backward compatibility to 1.1, 2.0, 2.1 + EDR and 3.0

Hardware Specs



Dimensions:

- 9.5mm x 11.5mm x 2.4mm (BX3100)
- 13.5mm x 11.5mm x 2.4mm (BX3105)
- [LGA:42 pins]

Main Interfaces

- UART, 2xI2C
- SDIO or SPI (Multiplexed)
- I2S digital audio
- 6 GPIOs
- LGA pad for external antenna (BX3100)
- Embedded antenna (BX3105)

Temperature Ranges: -40C to +85C

Input voltage: 1.8V or 3.3V

Proprietary and Confidential

Key Features



Wi-Fi

- Embedded TCP/IP stack with TCP, UDP, FTP, HTTP/S
- Integrated DHCP & web server
- AP, Station(client), and concurrent modes
- Wi-Fi Protected Access (WPA)/WPA2/WPA2-Enterprise/Wi-Fi Protected Setup (WPS)

Bluetooth

- Integrated Bluetooth dual-mode protocol stack
- Profile support for SPP, A2DP, AVRCP, HFP, PBAP, MAP and GATT
- 6LoWPAN for IP connections for Bluetooth
- Simultaneous central and peripheral mode support

Standard Features

- **AT Commands** allows for easy integration to a host platform
- **Secure boot** prevents unauthorized code on the target
- **Free, unlimited FOTA** through AirVantage® FOTA Edition

Certifications and Approvals

- FCC, CE, NCC, JRF/JPA
- Bluetooth SIG & Wi-Fi Alliance

