



AirPrime BX3100 Wi-Fi and Bluetooth Combo Module

Secure, certified short range connectivity on the most scalable module platform

The BX3100 Wi-Fi and Bluetooth 4.2 pre-certified module offers simple and fast integration with free unlimited FOTA and built-in cloud connectivity from AirVantage®, ideal for quickly and cost effectively adding wireless communication.

This module support 802.11 b/g/n and dual-mode Bluetooth Classic and Bluetooth Low Energy (BLE), connecting industrial applications requiring a secure connection to Wi-Fi and Bluetooth on a single module.

Designed in an industrial-grade common flexible form factor (CF3®), BX3100 enables system integrators to build their devices on the most scalable module platform in the world.

Benefits

Hostless	Embedded TCP/IP and Bluetooth Stacks with simple UART interface makes it easy to integrate
Certification	Full regulatory certifications (FCC, RED, IC, JRF, and BQB Bluetooth) for faster time to market
Common Form Factor	Compact <u>CF3® form factor</u> for ultimate flexibility in prototyping and built-to-order manufacturing
Industrial-grade	Built to stay connected in harsh environments and extreme temperatures
Cloud Connected	Secure device-to-cloud architecture with AirVantage® pre-integrated into the Legato platform
FOTA Upgrades	Includes <u>FREE unlimited firmware over-the-air (FOTA)</u> upgrades for the lifetime of the module to keep your deployments optimized and easier to maintain
Secure Boot	Prevent unauthorized code on the target and to keep the connectivity secure
Interfaces	Include UART, I2C, SDIO or SPI (Multiplexed), I2S digital audio, GPIOs, and LGA pad for external antenna
Low Power	Supports Bluetooth Low Energy (BLE) and offers best-in-class low power when not transmitting in sleep and stand-by modes

Technical Specifications

WI-FI SPECIFICATION

802.11 b/g/n

BLUETOOTH SPECIFICATION

Version 4.2

RF SPECIFICATIONS

Frequency Bands

2.4GHz

Maximum Data Rate

100 Mbps (UDP)

EMBEDDED SOFTWARE

Firmware

Pre-certified firmware, Secure boot

Audio

Digital Audio, I2S

INTERFACES

UART

1

I2C

1

GPIO

1

SPI

1

HARDWARE

CF3 Form Factor

LGA

Dimensions

9.5x11.5mm

Antenna

LGA pad for external antenna

Temperature Range

Industrial Grade: -40°C / +85°C

APPROVALS

Regulatory

CE, FCC, IC, JRF, KC

CLOUD SERVICES

Free Unlimited FOTA upgrades, Device Management option