AirPrime BX3105 Wi-Fi and Bluetooth Combo Module

Secure, certified short range connectivity with integrated antenna

The BX3105 Wi-Fi and Bluetooth 4.2 pre-certified module offers simple and fast integration with <u>free unlimited FOTA</u> 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 <u>common flexible form factor (CF3®)</u>, BX3105 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
Integrated Antenna	Quickly and easily add advanced wireless communications
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
13.5x11.5mm
Antenna
Embedded 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