

Type 1DX

Order Number LBEE5KL1DX

- 2.4GHz Wi-Fi + Bluetooth 4.1 EDR Module
- Network Topology: AP & STA dual mode
- Chipset: Broadcom BCM4343W
- Processor: No
- Modulation: DSSS / CCK / OFDM

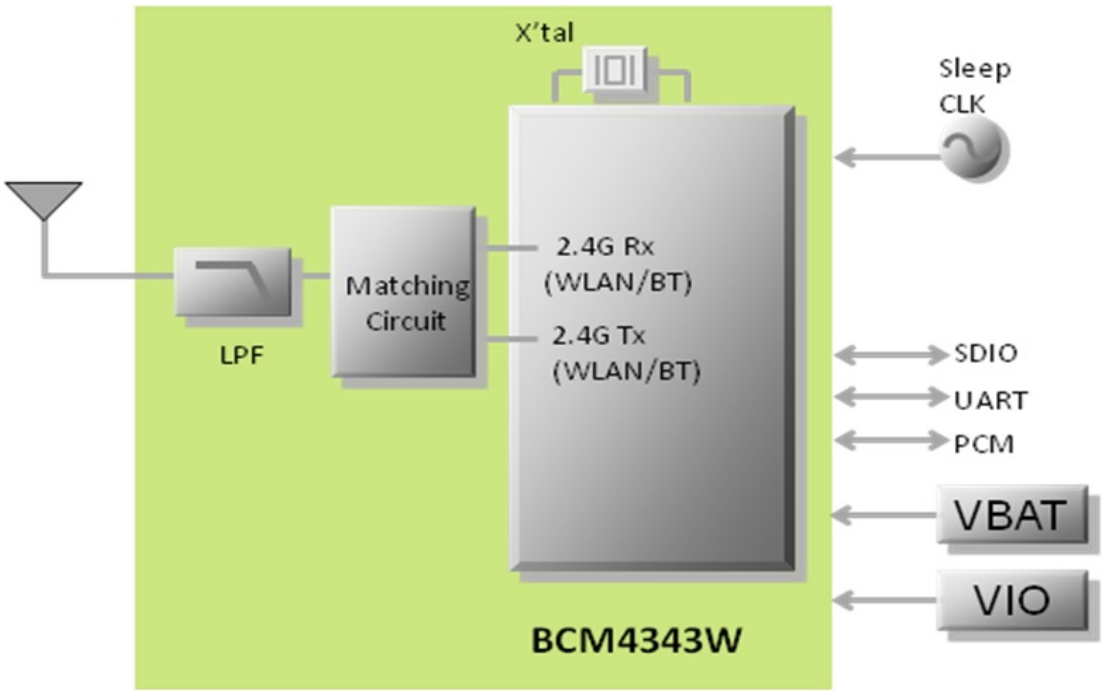
Description

The Type 1DX module is an ultra-small module that includes 2.4GHz WLAN and Bluetooth functionality. Based on Broadcom BCM4343W, the module provide high-efficiency RF front end circuits. The module is designed to fit into small spaces and is smaller than a dime. Minimal external circuitry is required to complete a radio design; add an antenna, power source, clocks, processor, and associated interface hardware and the radio hardware design is complete. To ease Wi-Fi certification, the Type 1DX module complies with IEEE 802.11b/g/n and Bluetooth Version 4.1 plus EDR, Power Class 1 (10dBm max) + BLE. Software is available for Linux and Android.

Specs

Product Type	Module
Grade	Consumer
Frequency	2.4GHz
Frequency MHz (min)	2400
Frequency MHz (max)	2483.5
Chipset	Broadcom BCM4343W
Processor	No
Modulation	DSSS / CCK / OFDM
Embedded Stack	No
Antenna	External
Sleep Clock	Yes
System Clock	Internal X'tal
Operating Temperature Range	-30 to +70C
Operating Temperature °C (min)	-30
Operating Temperature °C (max)	70
Mounting Type	SMT
Package	LGA
Dimension	6.95 x 5.15 x 1.1 mm
Supply Voltage (Vdc)	3.6
Supply Voltage min	3.35 for VBAT
Supply Voltage max	4.2 for VBAT
Transmit Power	+17dBm / 11Mbps
Transmit Mode Current	370mA / 11Mbps
Receive Mode Current	60mA
Data Rate WLAN	11, 54, 65 Mbps
Data Rate Bluetooth	3Mbps
WLAN	802.11b/g/n
Bluetooth	v4.1+EDR
Power Class	Class 1 (10 dBm max)
Technology	Wi-Fi + Bluetooth 4.1 EDR
Network	AP & STA dual mode
Host Interface	SDIO
I/O Interface	PCM for BT audio
Host Interface Other	No
Host Interface BT	UART
Interface Voltage (Vdc for VIO)	1.8 or 3.3
FCC/IC Certified	No
ETSI Certified	No
RoHs Compliant	Yes
ECCN	5A992
ISO9001	No
TS16969	No

Block Diagram



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