

CB801M Operation Principle

- (1). CPU, U3, The Marvell 88W8335 is one of 802.11 a/b/g MAC/Baseband processor ; Support Cardbus/PC card/Compact Flash/miniPCI/PCI host interfaces ; 10 GPIOs pin , Flexible GPIO interface with (LED) drivers to indicate TX/RX activities. It's on-chip A/D and D/A converters for I/Q channels . Supports short preamble and antenna diversity . Supports 6,9,12,18,24,36,48,54 Mbps for OFDM , 1,2,5.5,11 Mbps for DSSS .
- (2). 2.4GHz Transceiver, U1, The Marvell 88W8010 operates in the 2.4GHz frequency bands designed for IEEE 802.11g WLAN system or other WLAN application operating in 2.4GHz ISM band . The transceiver integrate all RF to baseband receive and transmit functions. Support power management/standby mode. It's contain all the active circuitry to support physical layer functions for both receive and transmit operation.
- (3). Power part: there are one regulator used on the board. U9, AME8805LEFT is used to transfer DC 3.3V to DC 1.5V 600 mA .
- (4). LED part:

LED	Color	Description
Power	Green-Yellow	On – Power is ready Off - Power is not ready
Link	Green-Yellow	On – Radio link Off – Radio not link

- (5). Band-Pass Filters, BP1, ACX BF3225-B2R4CAAT/, Freq. Range: 2.4~2.5GHz;
IL@BW: 2.5dB max
- (6). GaAs MMIC SPDT Switch, U2, AS179-92 , features low insertion loss with and positive voltage operation with very low DC power consumption.