

Schematic Description

CU is a wifi+BT+BLE module which supports 2.4GHz with 11b/g/n mode and GFSK/ $\pi/4$ -DQPSK/8DPSK mode, and support 5GHz with 11a/n/ac mode. It has a simple EC KB9028C with 7.6v DC power supply .

This module works with a 40MHz crystal, and has a 2MB flash, 5 PWM, 1ADC interface. Besides these, it can apply with 2.4GHz and 5GHz FPC antenna.

Bluetooth	
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Max Peak Output Power:	4.42dBm
Channel number:	40
Channel separation:	2MHz
Antenna type:	FPC antenna
Antenna gain:	-1 dBi

Bluetooth	
Modulation:	GFSK(DH5), $\pi/4$ -DQPSK(2DH5), 8DPSK(3DH5)
Operation frequency:	2402MHz~2480MHz
Max Peak Output Power:	9.58dBm
Channel number:	79
Channel separation:	1MHz
Antenna type:	FPC antenna
Antenna gain:	-1 dBi

2.4GHz WIFI	
Modulation:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM,64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Max Peak Output Power:	9.63dBm
Channel number:	802.11b/g/n(HT20): 11 channels 802.11n(HT40): 7 channels
Test frequency:	CH01/03: 2412MHz/2422MHz; CH06: 2437MHz; CH09/11: 2452MHz/2462MHz
Channel separation:	5MHz
Antenna type:	FPC antenna
Antenna gain:	-1dBi

Operation Frequency:	IEEE 802.11a/n(HT20)/ac(HT20):	U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 2A: 5260MHz to 5320MHz; U-NII Band 2C: 5500MHz to 5700MHz; U-NII Band 3: 5745MHz to 5825MHz
	IEEE 802.11n(HT40)/ac(HT40):	U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 2A: 5270MHz to 5310MHz; U-NII Band 2C: 5510MHz to 5670MHz; U-NII Band 3: 5755MHz to 5795MHz;
	IEEE 802.11ac(HT80):	U-NII Band 1: 5210MHz; U-NII Band 2A: 5290MHz; U-NII Band 2C: 5530MHz to 5610MHz; U-NII Band 3: 5775MHz
Number of Channels:	IEEE 802.11a/n(HT20)/ac(HT20):	U-NII Band 1: 4; U-NII Band 2A: 4; U-NII Band 2C: 11; U-NII Band 3: 5;
	IEEE 802.11n(HT40)/ac(HT40):	U-NII Band 1: 2; U-NII Band 2A: 2; U-NII Band 2C: 5; U-NII Band 3: 2;
	IEEE 802.11ac(HT80):	U-NII Band 1: 1; U-NII Band 2A: 1; U-NII Band 2C: 2; U-NII Band 3: 1
Modulation Type:	IEEE 802.11a:	OFDM(BPSK, QPSK, 16QAM, 64QAM);
	IEEE 802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM);
	IEEE 802.11ac	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Antenna Type:	FPC	
Antenna Gain:	-1 dBi	