



# BW21-CBV

# Power Consumption Test Report

# 1. Test Description

## 1.1 Test Instrument

Instrument	Manufacturer	Model
Current Analyzer	KEYSIGHT	N6705C

## 1.2 Test Conditions

Item	Condition	Note
Power Input	3.3V	/
Temperature	25°C (Room Temperature)	/

## 1.3 Test Items

Item	Result	Note
Power Consumption Test	PASS	/

## 1.4 Other Notes

Tested by	Dong Pengfei	Note
Reviewed by	Guan Ning	/
Test Date	2025-02-08	/

3.3V Current					
Test Mode		Min	Avg	Max	Unit
11b TX	CCK 11 Mbps, Pout = +21 dBm, Packet TX	-	342.05	-	mA
	CCK 11 Mbps, Pout = +21 dBm, Continuous TX	-	383.76	-	mA
11g TX	OFDM 54 Mbps, POUT = +19 dBm, Packet TX	-	281	-	mA
	OFDM 54 Mbps, POUT = +19 dBm, Continuous TX	-	331.69	-	mA
11n TX	OFDM MCS7, POUT = +18 dBm, Packet TX	-	268.02	-	mA
	OFDM MCS7, POUT = +18 dBm, Continuous TX	-	274.37	-	mA
11b RX	802.11b Sensitivity 1 Mbps, Packet RX (All)	-	49.3838	-	mA
	802.11b Sensitivity 11 Mbps, Packet RX (All)	-	49.381	-	mA
11g RX	802.11g Sensitivity 6 Mbps, Packet RX (All)	-	49.3263	-	mA
	802.11g Sensitivity 54 Mbps, Packet RX (All)	-	49.2324	-	mA
11n RX	802.11n Sensitivity MCS0, Packet RX (All)	-	49.2236	-	mA
	802.11n Sensitivity MCS7, Packet RX (All)	-	49.3737	-	mA

1.8V Current					
Test Mode		Min	Avg	Max	Unit
11b TX	CCK 11 Mbps, Pout = +21 dBm, Packet TX	-	50.0933	-	mA
	CCK 11 Mbps, Pout = +21 dBm, Continuous TX	-	49.956	-	mA
11g TX	OFDM 54 Mbps, POUT = +19 dBm, Packet TX	-	52.6716	-	mA
	OFDM 54 Mbps, POUT = +19 dBm, Continuous TX	-	49.9497	-	mA
11n TX	OFDM MCS7, POUT = +18 dBm, Packet TX	-	52.3347	-	mA
	OFDM MCS7, POUT = +18 dBm, Continuous TX	-	49.7079	-	mA
11b RX	802.11b Sensitivity 1 Mbps, Packet RX (All)	-	49.0772	-	mA
	802.11b Sensitivity 11 Mbps, Packet RX (All)	-	48.5118	-	mA
11g RX	802.11g Sensitivity 6 Mbps, Packet RX (All)	-	48.3588	-	mA
	802.11g Sensitivity 54 Mbps, Packet RX (All)	-	48.3173	-	mA
11n RX	802.11n Sensitivity MCS0, Packet RX (All)	-	48.3138	-	mA
	802.11n Sensitivity MCS7, Packet RX (All)	-	48.3157	-	mA

5V Current					
Test Mode		Min	Avg	Max	Unit
11b TX	CCK 11 Mbps, Pout = +21 dBm, Packet TX	-	29.5226	-	mA
	CCK 11 Mbps, Pout = +21 dBm, Continuous TX	-	36.8791	-	mA
11g TX	OFDM 54 Mbps, POUT = +19 dBm, Packet TX	-	36.2179	-	mA
	OFDM 54 Mbps, POUT = +19 dBm, Continuous TX	-	36.2596	-	mA
11n TX	OFDM MCS7, POUT = +18 dBm, Packet TX	-	34.5106	-	mA
	OFDM MCS7, POUT = +18 dBm, Continuous TX	-	34.3934	-	mA
11b RX	802.11b Sensitivity 1 Mbps, Packet RX (All)	-	28.3509	-	mA
	802.11b Sensitivity 11 Mbps, Packet RX (All)	-	28.4416	-	mA
11g RX	802.11g Sensitivity 6 Mbps, Packet RX (All)	-	28.415	-	mA
	802.11g Sensitivity 54 Mbps, Packet RX (All)	-	28.3368	-	mA
11n RX	802.11n Sensitivity MCS0, Packet RX (All)	-	28.3995	-	mA
	802.11n Sensitivity MCS7, Packet RX (All)	-	28.4001	-	mA