

WYSBMVGXB : Dual Band Wireless LAN and Bluetooth Module Wireless Modules

Key Features 802.11a/b/g/n & Bluetooth

- IEEE802.11a/b/g/n standard conformity, BT3.0, 2.1+EDR
- Low standby current (with advanced power save and sleep mode)
- Transmit speed : 11/5.5/2/1 Mbps(11b), 54/48/36/24/18/12/9/6 Mbps(11a/g), 150~6.5 Mbps (11n)
- Channel Number : 1 to 13 channel (11bg), W52/W53/W56(11a), 79 channel (BT)
- Interface : SDIO, PCM
- Multi Clock support: 26, 38.4 MHz
- Built-in EEPROM, Diplexer, 2G-PA, 5G-PA, 5G-LNA
- Security: WEP (64/128), TKIP, AES, WPA/WPA2,WAPI
- Small Outline: 13.1 x 6.1 x 1.35(Max) mm
- Package: Metal case package
- Utilizes 88W8787 IC
- RoHS Conformity

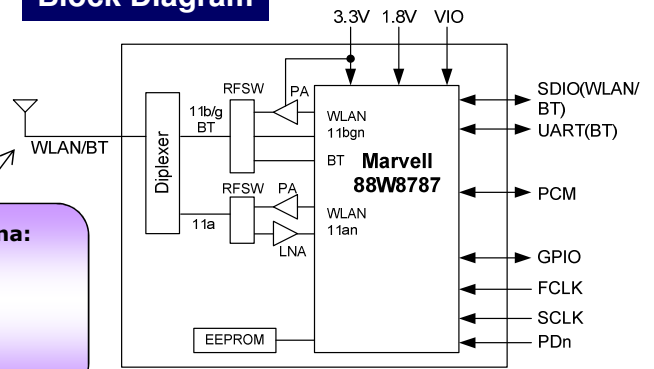
Applications

- Hand Held Device

General Electrical Specification

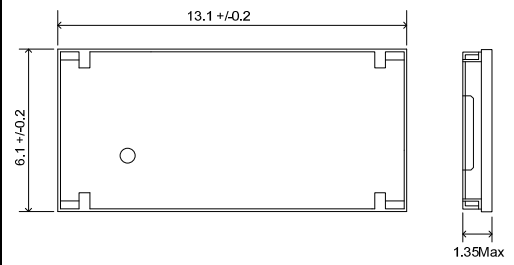
| Parameter | Description | Min. | Typ. | Max. | Units |
|---|------------------------------------|-----------|-------------|-------------|-------|
| Operation Voltage | Core_3.3V | 3.2 | 3.3 | 4.3 | V |
| | Core_1.8V | 1.71 | 1.8 | 1.89 | V |
| | VIO | 1.62/2.97 | 1.8/3.3 | 1.98/3.63 | V |
| TX Output Power (11b/g/n) (11a) (BT BR) | 2G:11b/11g/11n-MCS7-40M | 14/13/12 | 16/15/14 | 18/17/16 | dBm |
| | 5G:11a/11n-MCS7-40M | 12/11 | 14/13 | 16/15 | |
| | BT | 6 | 8 | 10 | |
| RX Sensitivity (11b/g/n) (11a) (BT BR) | 2G:11b/11g/11n-MCS7-40M | | -87/-74/-67 | -84/-71/-64 | dBm |
| | 5G:11a/11n-MCS7-40M | | -75/-70 | -72/-67 | |
| | BT | | -86 | -70 | |
| TX Power Consumption | 11b/11M (Duty45%) | | 520 | | mW |
| RX Power Consumption | 11n-MCS7-HT40 | | 242 | | mW |
| Power Consumption | Deep Sleep Mode VIO3.3V/VIO1.8V | | 3.0/0.81 | | mW |
| General Operation Temperature Range | | -20 | 25 | 70 | deg-C |

Block Diagram



Recommended Antenna:
AH104N2450D1-T
2.4/5GHz Dual Band
 **10x4x1.0mm**

Outline



Unit: mm

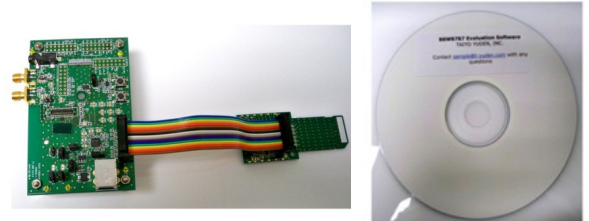
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**To Evaluate WLAN Module WYSBMVGXB,
You Will Need WKSXXVXXX-1 and WBSBMVGXB**

WKSXXVXXX-1 is the Wireless Interface Board to be connected with RF Daughter Card **WBSBMVGXB**.

WBSBMVGXB is the RF Daughter Card that includes WLAN Module **WYSBMVGXB**. You will need these 2 items to evaluate WLAN module **WYSBMVGXB**.

1 WKSXXVXXX-1 includes Software CD



2 WBSBMVGXB



| No | Item | Description | Qty |
|----|-------------|---|-----|
| 1 | WKSXXVXXX-1 | Wireless Interface Board (WIB) with SDIO interface (and connector to RF Daughter Card) | 1 |
| | | Evaluation Software CD | 1 |
| 2 | WBSBMVGXB | RF Daughter Card includes WLAN Module WYSBMVGXB (and connector to Wireless Interface Board) | 1 |