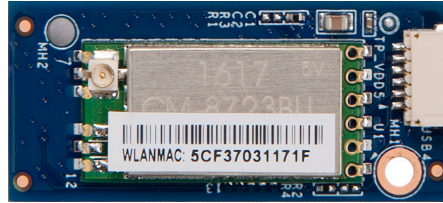


## Wireless Accessories

### VIA EMIO-5531

IEEE 802.11b/g/n USB Wi-Fi  
& Bluetooth Module



### Features

- Supports standard 802.11N 1T1R
- Controller chip: Realtek RTL8723BU WLAN + BT
- Fully qualified Bluetooth 4.0 dual mode + EDR specification including both 2Mbps and 3Mbps modulation mode
- Enterprise level security which can apply WPA/WPA2 certification for Wi-Fi
- Support for Android, Linux, and Windows® 10/8.1/8/7

### Specifications

Model Name		EMIO-5531 USB Wi-Fi & Bluetooth Module
Wireless	Standard	IEEE 802.11b/g/n
	Frequency Band	2400 ~ 2483.5MHz ISM band
	Data Transfer Rates	11n: MCS0 to MSC7 for HT20MHz/HT40MHz 11g: 54/48/36/24/18/12/9/6 Mbps (dynamic) 11b: 11/5.5/3/2/1 Mbps (dynamic)
	Channel	11 channels for United States (FCC) 13 channels for Europe (ETSI) 14 channels for Japan (TELEC)
	RF Power	11b : 17dBm 11g : 14dBm 11n : 13dBm
	Receive Sensitivity	11b : -82dBm 11g : -71dBm 11n : -67dBm
Bluetooth	Wireless Security	64/128 bit WEP WPA/WPA2, WPA-PSK/WPA2-PSK IEEE 802.1X
	Data Transfer Rates	Basic rate: 1Mbps Enhanced rate: 2/3 Mbps High Speed: 6/9/12/18/24/36/48/54 Mbps
	RF Power	Max + 8dBm
	Receive Sensitivity	-89dBm@1Mbps -90dBm@2Mbps -83dBm@3Mbps
General	Security	Simple pairing
	Antenna Connector Type Interface	1 coaxial cable antenna connector USB 2.0 Interface
Mechanical	Dimensions	25mm(W) x 2mm(H) x 12mm(D) (0.98" x 0.079" x 0.47")
Environment	Operating Temperature	-10°C to 70°C
	Non-Operating Temperature	-40°C~80°C
	Operating Humidity	0%~95% non-condensing
	Non-Operating Humidity	0%~95% non-condensing
Certification	Compliant	CE/ NCC/ TELEC



## Ordering Information

Part Number	Description
EMIO-5531-00A1	VAB-820-W IEEE 802.11b/g/n USB Wi-Fi & Bluetooth module with assembly kit and antenna

## Packing List

Items
EMIO-5531 module
2 Screw pack for module
Dipole antenna and antenna cable with washers and nuts
USB transmittal cable