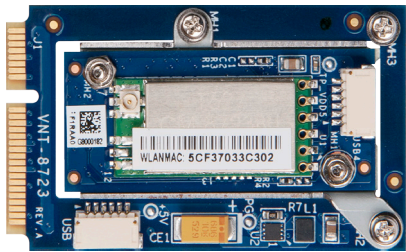


Wireless Accessories

VIA  
EMIO-2531

IEEE 802.11b/g/n miniPCle  
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® 10/8.1/7

Specifications

Model Name	EMIO-2531 miniPCle Wi-Fi & Bluetooth Module		
Wireless	Standard	IEEE 802.11b/g/n	
	Frequency Band	2400 ~ 2483.5MHz ISM band	
	Data Transfer Rates	11n: MCS0 to MCS7 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	
	Wireless Security	64/128 bit WEP WPA/WPA2, WPA-PSK/WPA2-PSK IEEE 802.1X	
	Bluetooth	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
Security		Simple pairing	
General		Antenna Connector Type	1 coaxial cable antenna connector
	Interface	USB	
Mechanical	Dimensions	50.95mm(W) x 6.7mm(H) x 30mm(D) (2.01" x 0.26 x 1.18")	
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-2531-00A1	VAB-820-W-M IEEE 802.11b/g/n miniPCle Wi-Fi & Bluetooth module with assembly kit and antenna

Packing List

Items
EMIO-2531 module
Dipole antenna and antenna cable with washers and nuts

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