

Wireless Accessories

VIA

EMIO-1541

IEEE 802.11b/g/n miniPCIe
Wi-Fi Module



Features

- Supports standard 802.11N 1T1R
- Controller chip: Atheros AR9485
- Wireless speed up to 150Mbps
- Compatible with 11b/g and 11N devices
- Supports 802.11e Wi-Fi Multimedia (WMM)
- Supports wireless roaming
- Supports 64/128/152 bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK and 802.1X security mode
- Half size minicard and full size minicard compatible
- Android, Linux, Windows® 8/7 driver support

Specifications

Model Name	EMIO-1541 miniPCIe Wi-Fi Module	
Wireless	Standard	IEEE 802.11b/g/n
	Frequency Band	2400 ~ 2483.5MHz ISM band
	Data Transfer Rates	11N: 135/121.5/108/81/54/40.5/27/13.5Mbps 130/117/104/78/52/39/26/13Mbps 65/58.5/52/39/26/19.5/13/6.5Mbps
		11g: 54/48/36/24/18/12/9/6 Mbps (dynamic)
		11b: 11/5.5/3/2/1 Mbps (dynamic)
	Channel	1 ~13 channel
	Extend Frequency	DSSS
	Modulation Type	OFDM
	RF Power	1b : 17dBm@11Mbps
		11g : 18dBm@ 6Mbps; 13dBm@54Mbps
11n/20M : 16dBm@MCS0; 11dBm@MCS7		
11n/40M : 16dBm@MCS0; 11dBm@MCS7		
Receive Sensitivity	11b: -78dBm	
	11g: -68dBm	
	11n: HT20 : -65dBm, HT40 : -62dBm	
Wireless Security	64/128/152 bit WEP WPA/WPA2, WPA-PSK/WPA2-PSK	
General	Antenna Connector Type	2 coaxial cable antenna connectors
	Operating Voltage	3.3 VDC +/- 10%
	Power Consumption	Transmit - 20MHz < 500mA; 40MHz < 520mA;
		Receive - 20MHz < 200mA; 40MHz < 250mA; Radio off mode : 110~130mA; Suspend mode : ~8mA
Interface	PCIe minicard	
Mechanical	Dimensions	30mm(W) x 3.1mm(H) x 26.8mm(D) (1.18" x 0.12" x 1.05")
	Environment	Operating Temperature Condition
Non-Operating Temperature Condition		-40°C~85°C
Operating Humidity Condition		10%~90% non-condensing
Non-Operating Humidity Condition		10%~90% non-condensing
Certification	Compliant	FCC, CE, NCC, IC, TELEC, MIC, SRRC, C-Tick, IDA, DGPT, NTC, WPC, Subtel...



Ordering Information

Part Number	Description
EMIO-1541-00A1	VNT9485 IEEE 802.11b/g/n miniPCIe Wi-Fi module with assembly kit and antenna

Packing List

Items
VNT9485 module
4 Screw pack with washer & nut
Dipole antenna & antenna cable

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