

Eddy™ WiFi V3.0 Module

Embedded WiFi Module

Main Features

- Further coverage, less dead space and higher throughput with MIMO technology.
- Operate at ISM frequency bands (2.4GHz)
- IEEE standards support: IEEE 802.11b/g/n
- Support USB2.0 host interface
- Support IEEE 802.11i encryption/decryption engine, including 64-bit/128-bit WEP, TKIP, and AES
- Wi-Fi alliance WPA ,WPA2 security
- Portable and mini-size design
- Operating system: Linux 2.6.x

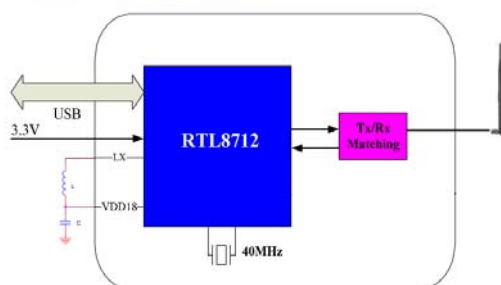


Eddy-WiFi, WLAN 802.11b/g/n module gives your laptop or desktop a versatile way to wirelessly connect to all wireless networks, 802.11b, 802.11g, 802.11n that operate in 2.4GHz frequency band. You simply plug it into USB port of desktop without opening the case of PC. The pocket-size design can be easily carried anywhere. The 128bit WEP and WPA, WPA2 Encryption protects your wireless network from eavesdroppers. Eddy-WiFi supports Linux 2.6.x drivers.



Eddy-WiFi Architecture

Module Block Diagram



LEFT	Description	RIGHT	Description
		1	NA
1	NA	2	NA
2	NA	3	NA
		4	NA
		5	VCC(3.3V)
		6	VCC(3.3V)
		7	USB Host Data(-)
		8	USB Host Data(+)
		9	NA
		10	NA
		11	NA
		12	Ground
		13	Ground
		14	WPID0
		15	WPID1
3	NA	16	WPID2
4	NA	17	NA
		18	NA

Eddy™-WiFi V3.0 Spec

Hardware

Host interface	USB 2.0
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WiFi Characteristics

Standard	802.11b, 802.11g, 802.11n
Modulation	802.11b:CCK, DQPSK, DBPSK 802.11g:64 QAM, 16 QAM, QPSK, BPSK 802.11n:BPSK, QPSK, 16-QAM, 64-QAM
Frequency Band	ISM band 2.4GHz ~ 2.4884GHz
Output Power	802.11b:16 dBm (11Mbps) 802.11g:14 dBm (54Mbps) 802.11n:14 dBm (20MHz BW,MCS7) 13 dBm (40MHz BW,MCS7)
RX Sensitivity	802.11b:-84dBm@11MHz 802.11g:-73dbm@54MHz 802.11n:-71dBm(MCS 7_HT20) -68dBm(MCS 15_HT20) -68dBm(MCS 7_HT40) -65dBm(MCS 15_HT40)
Security	WPA, WPA-PSK, WPA2, WPA2-PSK , WEP 64bit & 128bit , IEEE 802.11x, IEEE 802.11i
Working distance	60 - 120m, depending on surrounding environment
Data Rate	802.11b: 11, 5.5, 2, 1 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 802.11n: 20 MHz BW: 130, 1117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6.5 40 MHz BW: 270, 243, 216, 162, 150, 135, 121.5, 108, 81, 54, 40.5, 27, 13.5 (unit: Mbps)
Antenna	ANT 2.4Ghz 3DB, 1 x U.FL

Environment

Dimensions	28.0 X 45.2 X 9.1 mm
Operating Temp.	-10 ~ 70°C
Operating Voltage	3.3V±5% I/O supply voltage
Weight	10g

Approvals

KC, RoHS Compliant

Ordering Information

Eddy-WiFi	Embedded WiFi Module
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Package

Eddy-WiFi	Eddy-WiFi v3.0 Module, U.FL to RP-SMA Cable, Antenna
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