

WiFi Adapter

WIFI 011



- WiFi 802,11 b/g/n
- 1x1 MIMO technology improves effective throughput and range over existing 802.11 b/g/n products
- up to 150 Mbps data transfer rate
- BPSK, QPSK, 16-QAM, DBPSK, DQPSK and CCK modulation schemes
- WEP, TKIP, AES, WPA and WPA2 hardware encryption schemes

Performance Data

Wireless standard	802.11 b/g/n
Module type	Host Controller Interface (HCI)
Tested operating systems	Salamander, Gecko OS1)
Security	WEP 64 bit, WEP 128 bit, TKIP, AES, WPA, WPA2
Network architecture	Ad hoc mode (peer-to-peer) and infrastructure mode

Hardware

Chipset	Realtek
Antenna	Onboard chip antenna
Interfaces	USB 2.0
LED	Power

RF Characteristics

Tx output power	(±2 dBm): 13 dBm @ 11 n, 17 dBm @ 11 b, 15 dBm @ 11 g
Rx sensitivity	11 Mbps -80 dBm @ 8 % 54 Mbps -70 dBm @ 10 % 150 Mbps -64 dBm @ 10 %
Range (in open space)	indoor: up to 100 m outdoor: up to 180 m
Current consumption	transmit: average 125 mA receive: average 68 mA transmit and receive: average 104 mA
Data transfer rate	1, 2, 5, 5, 6, 11, 12, 18, 22, 24, 30, 36, 48, 54, 60, 90, 120 Mbps to a maximum of 150 Mbps
Frequency	2.4 GHz ISM band
Modulation scheme	BPSK/QPSK/16-QAM/DBPSK/DQPSK/CCK
Spektrum	IEEE 802.11b: DSSS (Direct Sequence Spread Spectrum) IEEE 802.11g/n: OFDM (Orthogonal Frequency Division Multiplexing)

Environmental Conditions

Storage temperature	-20 ... +70 °C
Environmental temperature	-10 ... +60 °C
Humidity	5-90 %, non-condensing

Article Number and Miscellaneous

Article number	12-640-011
Mechanical dimensions	17.00 x 15.00 x 8.00 mm (L x W x H)
Weight	1.80 g ±0.25 g tolerance 25.36 g in retail pack
Approvals	ROHS, REACH, WEEE (in EU, Brazil, Canada, Japan and USA)