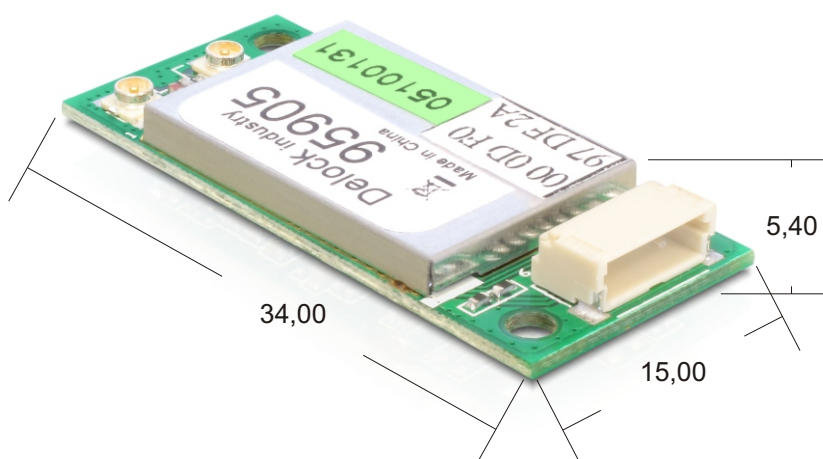


Specification

95905

Delock industry USB 2.0 WLAN 2T/2R 300Mbps Module

EAN: 4043619959051



date: 17.03.2011

Specification

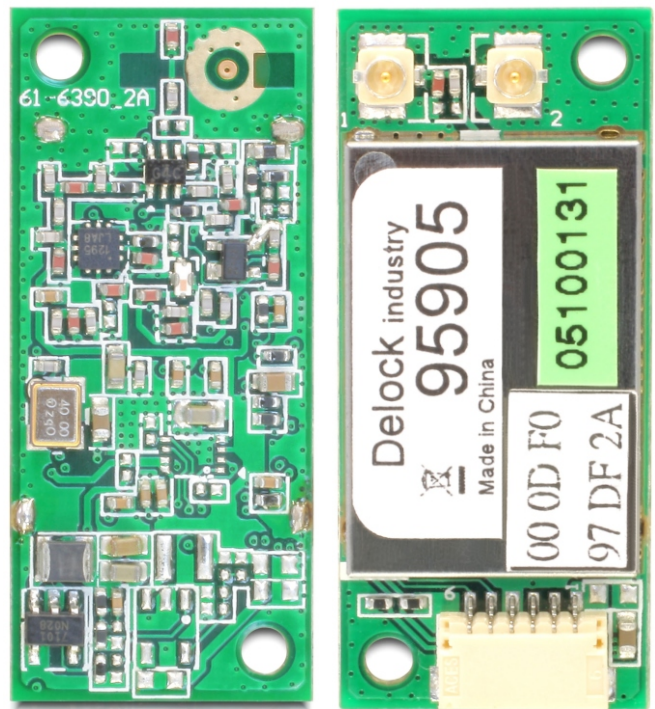
95905

Delock industry USB 2.0 WLAN 2T/2R 300Mbps Module

EAN: 4043619959051

Content:

- Device overall description
- Features
- Specification compliance
- Block diagram
- Channel assignment
- Security
- Certification
- Software & OS support
- Operating conditions
- RF characteristics
- Mechanic drawing
- Antenna connector
- LED indication



Specification

95905

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Device overall description

The LR802UKN4 is designed to provide wireless LAN function on a small form factor with USB interface. The wireless LAN function is based on Ralink RT3072 MAC/BBP/RF controller and high gain power amplifier, fully comply with current IEEE 802.11n and IEEE 802.11 b/g standards.

Features

- Ralink RT3072 MAC/BBP/RF controller
- 2T2R modes
- 11b: 1,2,5.5,11Mbps
- 11g: 6,9,12,18,24,36,48,54Mbps
- 11n(20MHz): MCS0-15 support(up to 150MBps)
- 11n(40MHz): MCS0-15 support(up to 300MBps)
- Reverse direction Data flow and frame aggregation
- WEP 64/128, WPA, WPA2, TKIP, AES
- QoS-WMM, WMM-PS
- WPS, PIN, PBC
- Multiple BSSID support
- Low Power with advanced power management

Specification compliance

- 802.11n
- 802.11b/g
- 802.11i
- 802.11e
- 802.11d
- 802.11h
- 802.11j
- USB2.0

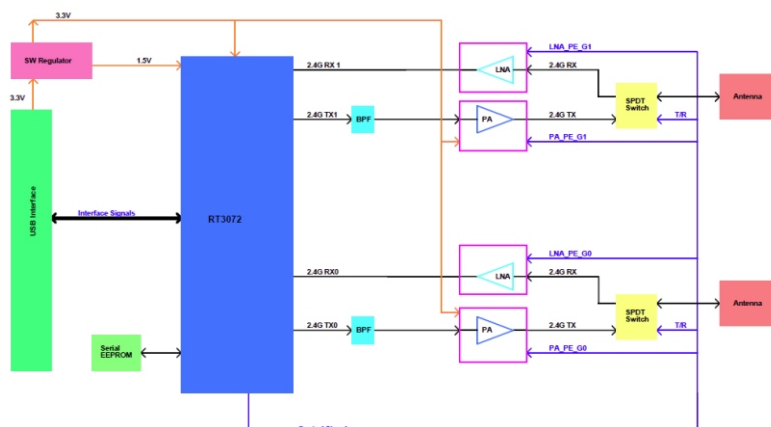
Specification

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Block diagram



Channel assignment 2.4GHz channel support

Channel	FCC (US)	IC (CA)	ETSI (EU)	Japan JP)
1	X	X	X	X
2	X	X	X	X
3	X	X	X	X
4	X	X	X	X
5	X	X	X	X
6	X	X	X	X
7	X	X	X	X
8	X	X	X	X
9	X	X	X	X
10	X	X	X	X
11	X	X	X	X
12			X	X
13			X	X
14				X

KEY: US = United States, CA = Canada, EU = European Countries (except France and Spain) JP = Japan
Many countries and region are currently revising the channel assignment. X = Supported

Specification

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Security

- Complete security features - WEP 64/128, WPA, WPA2, 802.1x, and 802.11i
- Cisco CCx compliant

Certification

- WHQL
- Wi-Fi certification: 802.11 b/g, 802.11n, WPA, WPA2, WMM, WMM-PS

Software & OS support

operating system	driver
Windows 2000	available
Windows XP 32/64	available
Windows Vista 32/64	available
Windows CE 5.0/6.0	available
Linux	available
MAC OS	available

Operating conditions

voltage range	3,3V (± 0.3V)
operating temperature range	0°C - 65°C
storage temperature range	-20°C - 85°C
relative humidity during operating	max. 95% (non-condensing)
relative humidity during storage	max. 95% (non-condensing)

Specification

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RF characteristics

RF Characteristics	Minimum	Typical	Maximum	Units
PC Interface		USB 2.0		
Internal Antenna Impedance		50		ohms
Operating Temperature Range	0		65	°C
Storage Temperature Range	-20		85	°C
Supply Voltage	3.0	3.3	3.6	V
RX Supply Current (11b 11Mbps)		191		mA
Power Consumption		630		mWatts
RX Supply Current (11g 54Mbps)		207		mA
Power Consumption		683		mWatts
RX Supply Current (11n 300Mbps)		300		mA
Power Consumption		990		mWatts
TX Supply Current (11b 11Mbps)		344		mA
Power Consumption		1135		mWatts
TX Supply Current (11g 54Mbps)		364		mA
Power Consumption		1201		mWatts
TX Supply Current (11n 300Mbps)		307		mA
Power Consumption		1013		mWatts
Radio off Current		34		mA
Power Consumption		112		mWatts
RX Sensitivity(11b,11Mbps)		-90		dBm
RX Sensitivity(11g,54Mbps)		-74		dBm
RX Sensitivity (11n,300Mbps)		-65		dBm
TX Output Power(11b,11M)		17		dBm
TX Output Power(11g,54Mbps)		14		dBm
TX Output Power(11n,MCS0)		17		dBm
TX Output Power(11n,MCS15)		14		dBm
TX Spectral Mask (CCK)		PASS		
TX Spectral Mask (OFDM)		PASS		
TX Spectral Mask (11n,20M)		PASS		
TX Spectral Mask (11n,40M)		PASS		
Preamble Length		Long/Short		

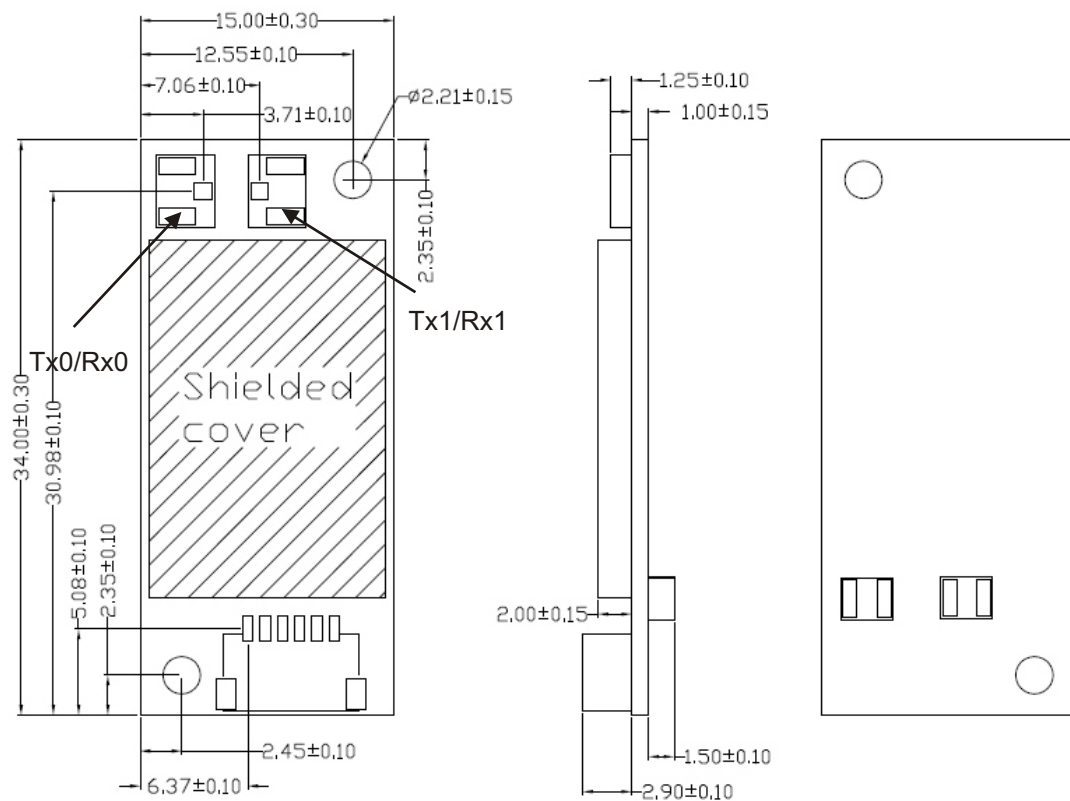
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Mechanical drawing



Antenna connector

Connector	Vendor	Part#
Antenna 2x	I-PEX, Hirose or compliance	I-PEX: 20279-001E01 HIROSE: U.FL-R-SMT-1(10) or compliance

Specification

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Host interface pin definition

1	VCC	2	USB Data -
3	USB Data +	4	GND
5	WLAN LED link	6	FAA pin: WLAN RF disable/enable

- Host interface connector : 6 pin SMT male USB connector
- Connector product number (male): 87213-0600L (connector vender aces Electronic CO., LTD.)

Note:

Pin 5 is low active for WLAN LED link.

Pin 6 is low voltage to disable RF function

LED status:

LED status	WLAN card activity
on	associated and authenticated but not transmitting or receiving
slow blink	scanning for AP
intermittent blink	activity proportional to transmitting/receiving speed
off	radio off