DELOCK®

w e   m o v e   t h e   w o r l d

industry

Specification

95859

Delock industry USB WLAN 150 Mbps 3V module
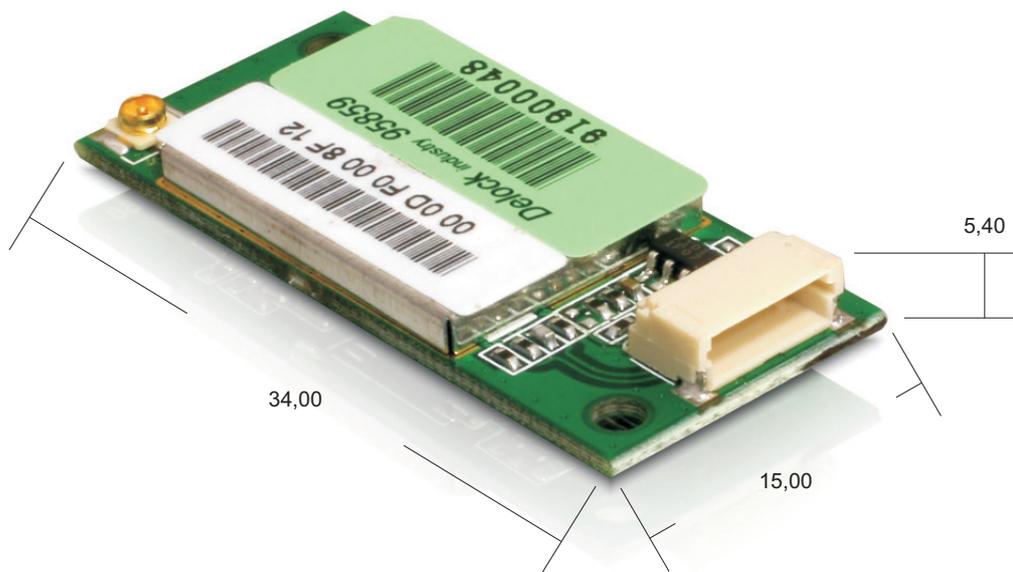

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date: 11.05.2009

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Contents:

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Device Overall Description

The 95859 is designed to provide wireless LAN function on a small form factor with USB interface. The wireless LAN function is based on Ralink RT3070 MAC/BBP/RF controller and high gain power amplifier, fully comply with current draft IEEE 802.11n and IEEE 802.11 b/g standards.

Features

- Ralink RT3070 MAC/BBP/RF controller
- 1T1R modes
- 11b: 1,2,5.5,11Mbps
- 11g: 6,9,12,18,24,36,48,54Mbps
- 11n: legacy and high throughput modes, support 20/40MHz bandwidth MCS0~7(150Mbps PHY rate rate)
- reverse direction data flow and frame aggregation
- WEP 64/128, WPA, WPA2, TKIP, AES
- QoS-WMM, WMM-PS
- WPS, PIN, PBC
- multiple BSSID support
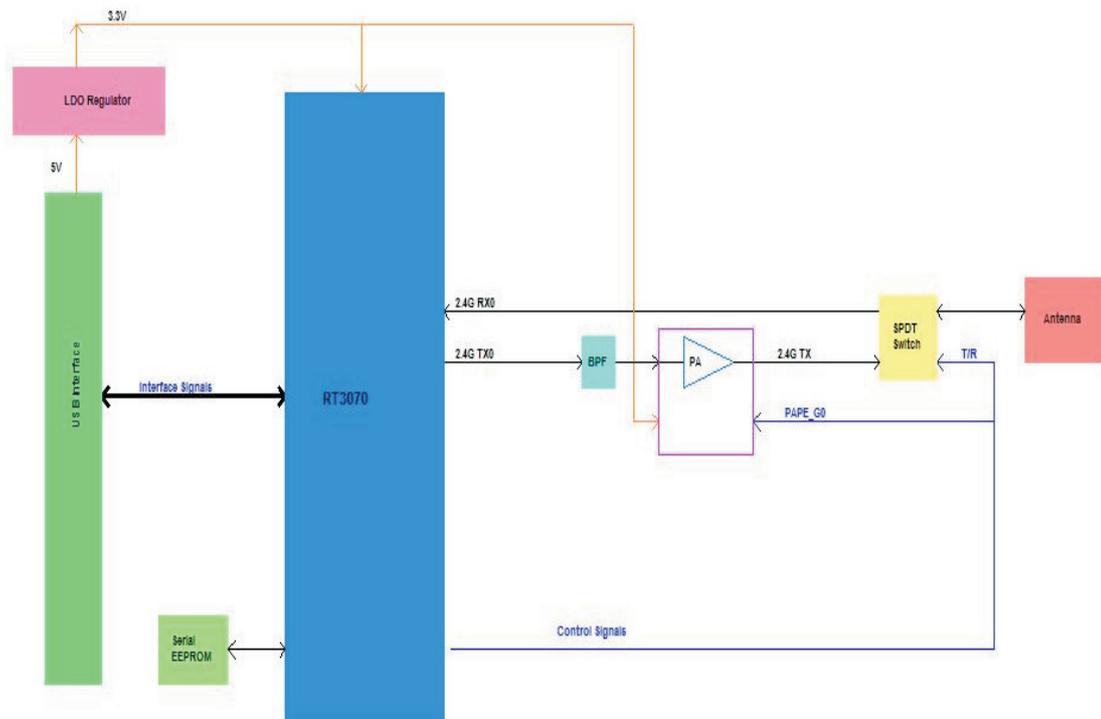- low power with advanced power management

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Specification compliance

- 802.11n Draft3.0
- 802.11b/g
- 802.11i
- 802.11e
- 802.11d
- 802.11h
- 802.11j
- USB2.0

Block diagram

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Channel sssignment

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

Security

· complete security features - WEP 64/128, WPA, WPA2, 802.1x, and 802.11i
· Cisco CCS compliant

Certification

· Cisco CCX

RF Specifications

TBD

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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 ($\pm$ 0.3V)
operating temperature range	-10°C - 65°C
storage temperature range	-10°C - 85°C
relative humidity during operating	max. 95% (non-condensing)
relative humidity during storage	max. 95% (non-condensing)

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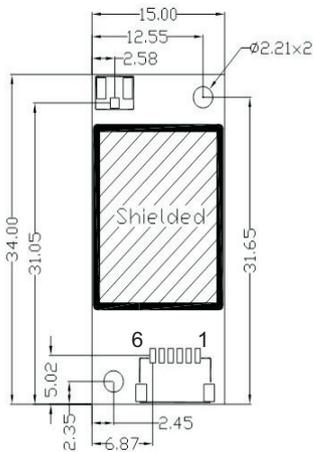## Delock industry USB WLAN 150 Mbps 3V module

Mechanical drawing
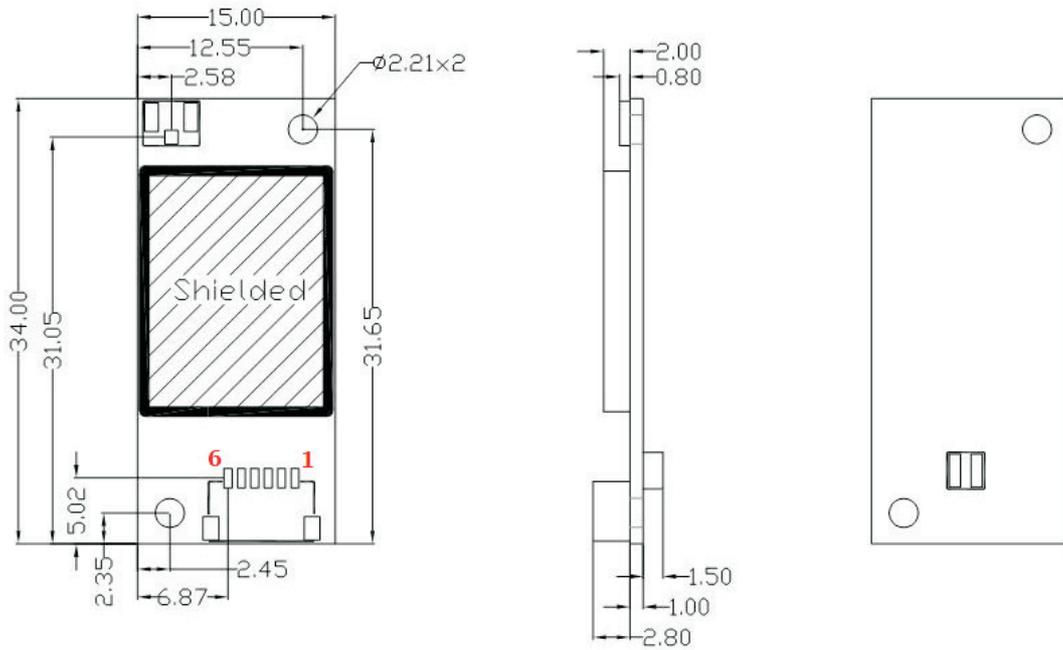
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Antenna connector

Connector	Vendor	Part#
Antenna *1	Hirose	CL331-0471-0-10 (U FL-R-SMT), or compliance

Connector Status:

Host interface pin definition

1	Vcc 3V	2	USB Data -
3	USB Data +	4	GND
5	WLAN LED LINK	6	FAA pin: WLAN RF Disable/Enable

cable optional: Delock industry A95835

-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

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LED status:

LED status	WLAN card activity
LED on	Associated, and authenticated but not transmitting or receiving
LED Slow Blink	Scanning for AP
LED Intermittent Blink	Activity proportional to transmitting/receiving speed
LED off	Radio off