

Specification

95899

Delock mini PCI Express WLAN 2T2R 300 Mbps half-size

EAN: 4043919958995



edition: 02.2012

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Device Overall Description

The 95899 is designed to provide wireless LAN function on a small form factor with PCI Express interface. The wireless LAN function is based on Ralink RT3092 MAC/BBP/transceiver and high gain power amplifier, fully complies with current IEEE 802.11n and IEEE 802.11 b/g standards.

Features

- Ralink RT3092 MAC/BBP/transceiver
- 2T2R Modes
- 11b: 1,2,5.5,11 Mbps
- 11g: 6,9,12,18,24,36,48,54 Mbps
- 11n(20MHz): MCS0-15 support (up to 150 MBps)
- 11n(40MHz): MCS0-15 support (up to 300 MBps)
- Reverse direction grant data flow and frame aggregation
- WEP 64/128, WPA, TKIP, AES
- Qos-WMM, WMM-PS
- WPS, PIN, PBC
- Multiple BSSID support
- International regulation-802.11d+h
- Low Power with Advanced Power Management
- Cisco CCX support up to v5.0
- PCI Express 1.1

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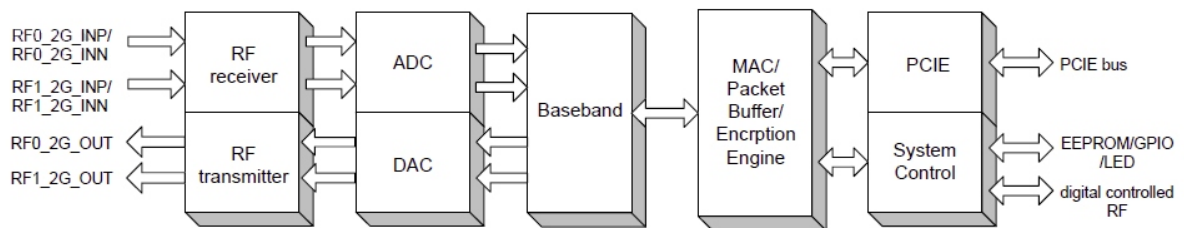
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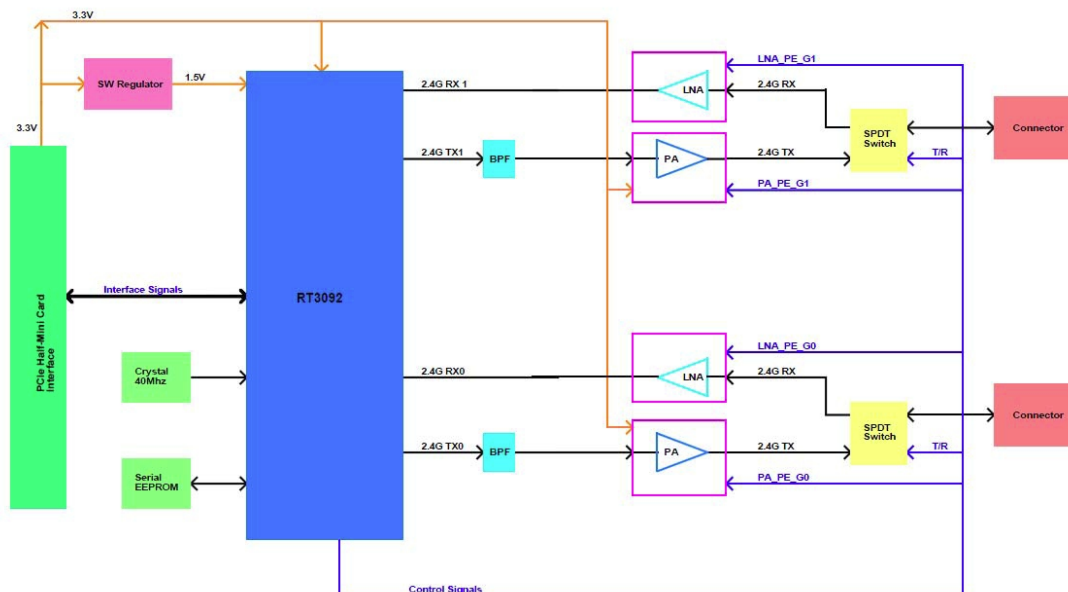
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Block diagram

RT3092: Ralink, Wireless LAN Integrated medium access controller with baseband processor, and 2.4GHz transceiver



Work block diagram:



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Channel assignment

Channel	Channel frequency	FCC (US)	IC (CA)	ETSI (EU)	Japan JP)
1	2412 Mhz	x	x	x	x
2	2417 Mhz	x	x	x	x
3	2422 Mhz	x	x	x	x
4	2427 Mhz	x	x	x	x
5	2432 Mhz	x	x	x	x
6	2437 Mhz	x	x	x	x
7	2442 Mhz	x	x	x	x
8	2447 Mhz	x	x	x	x
9	2452 Mhz	x	x	x	x
10	2457 Mhz	x	x	x	x
11	2462 Mhz	x	x	x	x
12	2467 Mhz			x	x
13	2472 Mhz			x	x
14	2484 Mhz				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 CCx compliant

Certification

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

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RF characteristics

RF Characteristics	Minimum	Typical	Maximum	Units
PC interface mechanical	Mini PCI Express			
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 11 MBps)		220		mA
Power consumption		726		mWatts
RX supply current (11g 54 MBps)		235		mA
Power consumption		775		mWatts
RX supply current (11n 300 Mbps)		325		mA
Power consumption		1072		mWatts
TX supply current (11b 1 MBps)		360		mA
Power consumption		1188		mWatts
TX supply current (11g 6 MBps)		420		mA
Power consumption		1386		mWatts
TX supply current (11n 15 MBps)		400		mA
Power consumption		1320		mWatts
Radio off current		10		mA
Power consumption		33		mWatts
RX sensitivity(11b,11 MBps)		-88		dBm
RX sensitivity(11g,54 MBps)		-73		dBm
RX sensitivity (11n,300 Mbps)		-66		dBm
TX output power(11b,11 MBps)		17,5		dBm
TX output power(11g,54 MBps)		14		dBm
TX output power(11n,MCS0)		17,5		dBm
TX output power(11n,MCS15)		14		dBm
TX spectral mask (CCK)		PASS		
TX spectral mask (OFDM)		PASS		
TX spectral mask (11n,20 MHz)		PASS		
TX spectral mask (11n,40 MHz)		PASS		
Preamble length		Long/Short		

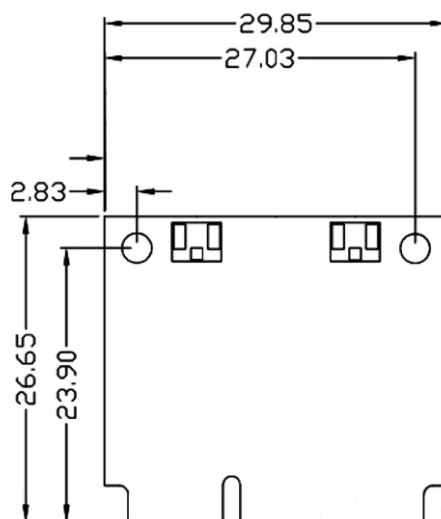
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Mechanical drawing



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Antenna connector

Connector	Vendor	Part#
Antenna x2	I-PEX, Hirose	CL331-0471-0-10 (U.FL.-R-SMT) or compliance

Operating conditions

Voltage range	3.3 V \pm 0.3 V
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)

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

Software & OS support

Operating System	Driver
Windows 2000	Available
Windows XP 32/64	Available
Windows Vista 32/64	Available
Windows 7 32/64	Available
WinCE 5.0 & 6.0	Available
Linux 2.4.x / 2.6.x	Available
MAC OS	Available

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WEEE note

The WEEE (Waste Electrical and Electronic Equipment) directive, which came into force on 13 February 2003, lead to a comprehensive change in the disposal of used electric products. It is the main purpose of this directive to avoid electric waste products (WEEE), while simultaneously promoting the re-usage, recycling and other forms of reconditioning in order to reduce the amount of waste. The WEEE logo on the product and the package shows that the product should not be disposed of with regular garbage. You are responsible for disposing all used electric and electronic devices at the corresponding collection sites. The separate collection and meaningful re-usage of electronic waste helps to deal with natural resources more economically. In addition, re-using electronic waste contributes to the preservation of the environment and human health. Additional information regarding the disposal of electric and electronic devices, their re-usage and the collection sites can be found at your local authorities, disposal companies, specialist shops and the manufacturer of the product.

RoHS conformity

This product complies with the directive 2002/95/EC of the European parliament and the council from January 27th 2003 concerning the restricted use of dangerous substances in electrical and electronical devices (RoHS) as well as its modification. This product complies with the directive 2011/65/EU which becomes effective from January 3rd 2013.

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Support Delock

If you have further questions, please contact our customer support
support@delock.de.

You can find current product information on our homepage: www.delock.com.

Final clause

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Edition: 02/2012

EU Import: Tragant Handels- und Beteiligungs GmbH
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