



# CPCI-WLAN2

Up to two IEEE 802.11b/g WLAN Interfaces

- IEEE 802.11b/g
- 2.4 GHz ISM band
- Wide operating system support

## CompactPCI board

The CPCI-WLAN2 is a CompactPCI board in 3U format. It is equipped with up to two WLAN modules with Atheros chips designed to realize compact WLAN solutions with approved and calibrated components compliant to regulatory standards.

## IEEE 802.11b/g Modules

Equipped with reverse SMA antenna connectors for the main and auxiliary antennas at the front panel (full antenna diversity), the CPCI-WLAN2's on-board WLAN modules offer a transmitting power of 18 dBm on the 2.4 GHz frequency range, and support for hardware coding for Wi-Fi protected access (WPA) and IEEE 802.11i standard.

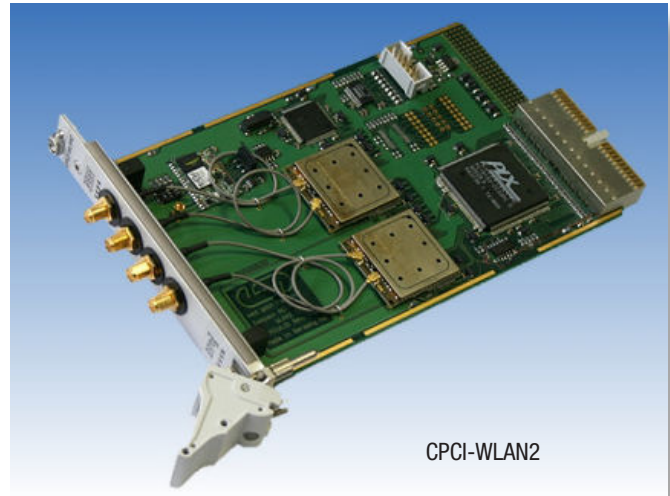
## Optional Bluetooth Interface

esd electronics offers a Bluetooth 2.0 interface with another reverse SMA antenna connector as an additional option.

## LED Display

Eight LEDs in the front panel display the status of the board.

For further information please visit  
[http://www.esd-electronics-usa.com/New\\_Hardware\\_from\\_esd\\_electronics.html](http://www.esd-electronics-usa.com/New_Hardware_from_esd_electronics.html)



## Software Support

The WLAN modules work with standard drivers of Windows (XP, 2K, ME, 98 SE and NT 4.0) and Linux 2.4.2x / 2.6.x. For customers using VxWorks, esd offers the standard VxWorks "Wireless Ethernet Driver".

### The optional Bluetooth module offers two modes:

**Option one** builds a wireless serial communication with a Serial Port Dongle using the module as a Serial Port Emulator with standard system drivers.

**Option two** offers Bluetooth communication via the HCI firmware with the standard Linux Bluetooth Protocol Stack only.

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### Technical Specifications:

#### CompactPCI interface:

Controller:	PLX PCI6152, 32 bit / 33 MHz
Standard, IRQ:	PCI Specification 2.2, IRQ A, IRQ B

#### WLAN interfaces:

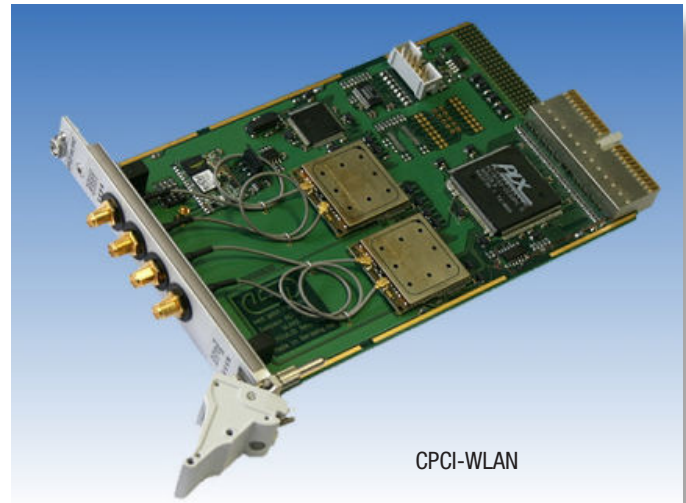
Specification:	IEEE 802.11b/g (802.11a on request)
Radio frequency:	2.4 GHz ... 2.483 GHz ISM band
Raw data rates:	IEEE 802.11b: 11, 5.5, 2, 1 Mbit/s IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbit/s
Channels:	ETSI: 1-13, FCC: 1-11, Japan: 1-14
Transmitter power:	18 dBm (programmable)
Antenna :	Full antenna diversity mode
Safety:	Hardware coding for WPA and IEEE 802.11i spec.

#### Optional Bluetooth interface (version CPCI-WLAN2/x/BT only):

Bluetooth:	Bluetooth V2.0 Class1 / Class2 module
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#### General:

Power supply:	3.3 V supply voltage only
Ambient temp.:	-40 /C ... +85 /C
Humidity:	Max. 90 %, non-condensing
Connectors:	Reverse polarity (RP) SMA connectors (male) for all available antennas



For further information please visit  
[http://www.esd-electronics-usa.com/New Hardware from esd electronics.html](http://www.esd-electronics-usa.com/New_Hardware_from_esd_electronics.html)

### Order Information:

Order information:	Designation	Order no.
CPCI-WLAN2/1	1x WLAN, Full Antenna Diversity	I.2325.02
CPCI-WLAN2/2	2x WLAN, Full Antenna Diversity	I.2325.04
CPCI-WLAN2/1/BT	1x WLAN, 1x Bluetooth	I.2325.03
CPCI-WLAN2/2/BT	2x WLAN, 1x Bluetooth	I.2325.05

