

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 chip that are designed to realize compact WLAN solutions with approved and calibrated components compliant to regulatory standards.

IEEE 802.11b/g Modules

The on-board WLAN modules offer a transmitting power of 18 dBm on the 2.4 GHz frequency range. Hardware coding for Wi-Fi protected access (WPA) and IEEE 802.11i standard are supported. The module is equipped with reverse SMA antenna connectors for the main and auxiliary antennas at the front panel (full antenna diversity).

Optional Bluetooth Interface

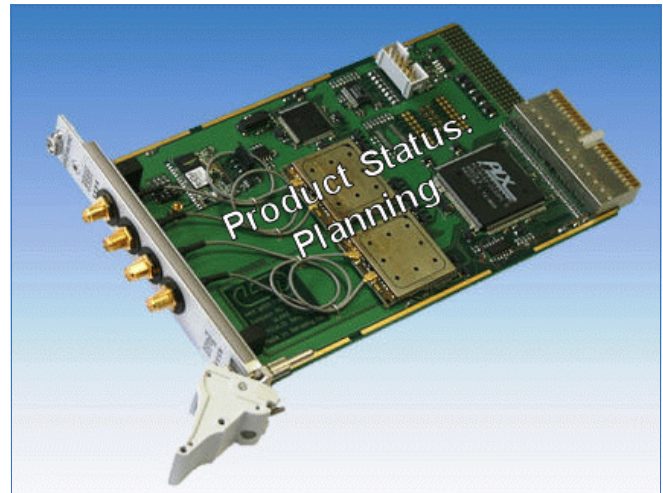
As an option a Bluetooth 2.0 interface with another reverse SMA antenna connector is available.

LED Display

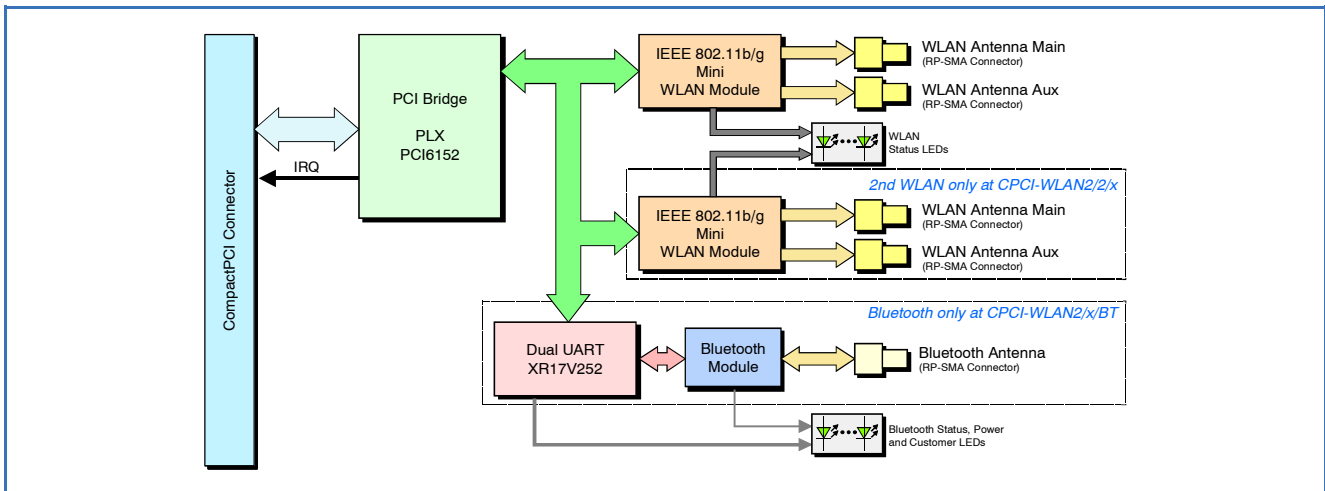
Eight LEDs in the front panel display the status of the board.

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 VxWorks the standard VxWorks 'Wireless Ethernet Driver' can be used.



The optional Bluetooth module can be used in two modes:
Working as a Serial Port Emulator with standard system drivers a wireless serial communication with a Serial Port Dongle can be build.
Bluetooth communication via the HCI firmware is possible with the standard Linux Bluetooth Protocol Stack only.



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

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

Order information:

Designation		order no.
CPCI-WLAN2/1	1x WLAN, Full Antenna Diversity	1.2325.02
CPCI-WLAN2/2	2x WLAN, Full Antenna Diversity	1.2325.04
CPCI-WLAN2/1/BT	1x WLAN, 1x Bluetooth	1.2325.03
CPCI-WLAN2/2/BT	2x WLAN, 1x Bluetooth	1.2325.05