



Wireless USB PCI Express Mini Card



Key Features

- Based on WSR601 single chip
- Superior RF performance offering extended range and coverage
- UltraSpeed for enhanced performance
- Co-existence with 802.11 and Bluetooth
- Compliance to worldwide regulatory requirements using single SKU
- Enhanced power management modes
- Based on Certified Wireless USB

Overview

Wisair's Wireless USB PCI Express Mini card delivers high performance Wireless USB capabilities to a range of hosts, including notebook PCs, tablet PCs, Ultra-Mobile PCs, and mobile internet devices (MIDs).

Based on Wisair's WSR601 single chip, the PCIe Mini card offers outstanding range and coverage, benefitting from Wisair's mature PHY technology. The design includes Wisair's UltraSpeed technology, optimizing data throughput by detecting the USB class of the device, and enabling an enhanced throughput for selected applications such as mass storage devices or video over USB.

The PCIe Mini card is specifically designed to integrate with existing notebook platforms and co-exist in close proximity to other wireless technologies, such as Bluetooth and 802.11. On the power management side, the implementation of multiple operational modes (ready, standby, sleep, and hibernation), minimizes power consumption to extend battery life.

The PCIe card is provided as a complete reference design package, including hardware, drivers and a software management utility for managing the initial pairing process and device wireless connectivity.

Reference Design Package

The PCIe Mini Card reference design package includes:

- User manual
- Bill of materials
- PCB design files (schematic, layout, and mechanical)
- Production utilities and test procedures
- Firmware and PC drivers

Benefits

- Wireless connectivity to USB devices with full room coverage
- Worldwide regulatory support with single SKU
- Extended battery life through advanced power save modes
- Coexistence with existing PC wireless technologies (802.11, Bluetooth, WiMAX, and WWAN)

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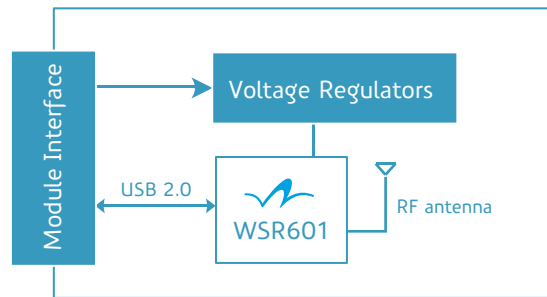
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Wireless USB PCI Express Mini Card



PCI Express Half Mini Card Block Diagram

About Wisair

Wisair is a fabless semiconductor company providing Ultra Wideband (UWB) and Wireless USB solutions based on its CMOS single chip.

Recognized for their superior coverage and throughput, Wisair's solutions offer the best combination of performance, price, and power consumption for Wireless USB.

Specifications

UWB and Wireless USB

- Based on Certified Wireless USB, WiMedia PHY and MAC specifications
- Up to 480 Mbps PHY data rate
- 3.168 to 4.752 GHz (WiMedia band group 1)
- Time frequency codes 9-12 (TFI), 13-15 (FFI)
- Cable and numeric association
- Enhanced power management modes

Software

- Windows® XP/Vista software driver support
- GUI application for setup and connection management

General

- Coexistence with 802.11 and Bluetooth
- RoHS compliant

PCIe Half Mini Card

- PCB size: 30 x 26.8 mm
- Power consumption: < 1.5W
- Interface: USB 2.0 (via PCIe interface)
- Antenna: detachable RF connector
- Power supply: 3.3V