

TW-D201 mPCIe Card

Overview

Transystem Inc. offers 2x2 802.11n 2-stream 2.4GHz or 5GHz 802.11n mini PCI express cards to enable data rate up to 150Mbps link rate for 20MHz channel and up to 300Mbps link rate for 40MHz channel, and it is based on full size mPCIe form factor design to deliver a variety of high-reliability & bandwidth-intensive applications.

- TW-D201 is dual band mPCIe card, up to +17dBm Transmit output power per port

The mPCIe cards are based on Qualcomm Atheros AR9382 design. It can be deployed in the notebook and other computing platforms to deliver the ultimate wireless triple play experiences in the home and the enterprise applications.



Key Features

- Standard 30 x 50.95 mm full PCIe mini card form factor with screw mounting hole
- Based on Atheros AR9382 2x2 MIMO Platform
- Two U.FL antenna connectors enable flexible connectivity
- Supports IEEE802.11a/b/g/n backward compatibility allows inter-operability among multiple WiFi networks
- Dynamic Frequency Selection (DFS) in required 5-GHz bands when used for AP application.
- Supports spatial multiplexing, cycle-delay diversity (CDD), low-density parity check (LDPC), maximal ratio combining (MRC), space time block code (STBC), and Tx beamforming (TxBF)
- 802.11i security support, w/ WEP, TKIP, AES, and WAPI hardware encryption
- Support 802.11e, h, and i standards
- RoHS compliance

TranSystem. Inc.

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Specification

Wireless Interface

5GHz Radio

- Standard IEEE 802.11a, 802.11n
- Operation Frequency 5.150 – 5.850 GHz

- Transmit Power* (± 2 dB) (average)

802.11a		
54 Mbps		+10 dBm
6 Mbps		+15 dBm

802.11n		
HT20		
	MCS-15	+10 dBm
	MCS-0	+15 dBm
HT40		
	MCS-15	+ 9 dBm
	MCS-0	+14 dBm

- Receive Sensitivity* (Typical)

802.11a		
54 Mbps		-68 dBm
6 Mbps		-85 dBm

802.11n		
HT20		
	MCS-7	-67 dBm
	MCS-0	-85 dBm
HT40		
	MCS-7	-64 dBm
	MCS-0	-82 dBm

2.4GHz Radio

- Standard IEEE 802.11b, 802.11g, 802.11n

- Operation Frequency 2.4.12 – 2.4835 GHz (Ch 1-13)

- Transmit Power* (± 2 dB) (average)

802.11b		
11 Mbps		+16 dBm

802.11g		
54 Mbps		+16 dBm
6 Mbps		+17 dBm

802.11n		
HT20		
	MCS-15	+14 dBm
	MCS-0	+16 dBm
HT40		
	MCS-15	+13 dBm
	MCS-0	+15 dBm

- Receive Sensitivity* (Typical)

802.11g		
54 Mbps		-68 dBm
6 Mbps		-85 dBm

802.11n		
HT20		
	MCS-7	-67 dBm
	MCS-0	-85 dBm
HT40		
	MCS-7	-64 dBm
	MCS-0	-82 dBm

Electrical Specification

- Power consumption: up to 2.85Watts

Environmental Specification

- Operating Temp. Ambient 0°C to +70°C
- Storage Temperature -10°C to + 80 °C
- Humidity 0 – 95% (Non-condensing)

*Note: the wireless interface spec is based on one chain TX/RX.

Typical value @ 25°C, unless otherwise specified

Specifications are subject to change without prior notice

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