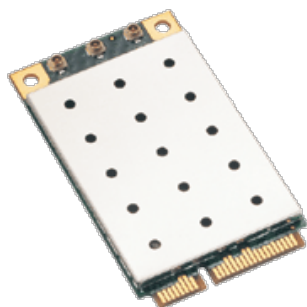


802.11ac/a/b/g/n Mini PCI-E Card

WPEQ-353ACNI



Industry Leading 802.11ac/a/b/g/n 3T3R Dual-Band Mini PCIe Module

Feature

- Standard: 802.11ac/a/b/g/n
- Interface: PCI Express
- Chipset: Qualcomm Atheros QCA9890-BR4B
- Antenna: 3 x U.FL connectors, 3T3R
- Data rate up to 1.3Gbps
- Industrial-Grade Temperature: -40 ~ 85°C
- Enhanced wireless security: 64/128-bits WEP, WPA, WPA2, WAPI, WPS
- Support Linux

Dual-Band 802.11ac Solution

SparkLAN WPEQ-353ACNI is an 802.11ac/a/b/g/n Dual-Band Mini PCI express module based on Qualcomm Atheros QCA9890-BR4B chipset. It supports 3T3R (3x3) technology, which runs up to 1.3Gbps. The WPEQ-353ACNI supports 20/40/80MHz and 256-QAM to maximize bandwidth efficiency.

Higher throughput for Enterprise Networking

Adopting the latest 802.11ac solution, WPEQ-353ACNI is ideal for next-generation high throughput enterprise networking solution.

Secure Wireless Connection

Incorporated with advanced security encryption, such as 64/128-bits WEP, WPA, WPA2, WAPI, WPS, it helps prevent users' devices from malicious attacks.

802.11ac/a/b/g/n Mini PCI-E Card

WPEQ-353ACNI

Specification

Standard

802.11ac/a/b/g/n

Chipset

Mac/BB/RF Qualcomm Atheros QCA9890-BR4B

Host Interface

Mini PCI express

Form Factor

Mini PCIe (Mini Express Card)

Data Rates

802.11a: 6~54Mbps / 802.11g: 6~54Mbps / 802.11n: MCS0 ~ MCS7 / 802.11ac: MCS8-9

Radio

Antenna 3 x U.FL connectors, 3T3R

11b/g/n ISM Band: 2.412GHz ~ 2.472GHz

Operating Frequency 11ac ISM Band: 5.180GHz ~ 5.825GHz

*subject to local regulations

Modulation 802.11a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) / 802.11b: DSSS (DBPSK, DQPSK, CCK)
802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) / 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)

Output Power (1T) 802.11a: 15dBm ± 2dBm@54Mbps / 802.11g: 15dBm ± 2dBm@54Mbps
802.11gn HT20: 13dBm ± 2dBm@MCS7 / 802.11gn HT40: 13dBm ± 2dBm@MCS7
802.11an HT20: 13dBm ± 2dBm@MCS7 / 802.11an HT40: 12dBm ± 2dBm@MCS7
802.11ac(VHT80): 10dBm ± 2dBm@MCS9

Receive Sensitivity (1R) 802.11a: ≤ -73dBm@54Mbps / 802.11g: ≤ -75dBm@54Mbps
802.11gn HT20: ≤ -72dBm@MCS7 / 802.11gn HT40: ≤ -68dBm@MCS7
802.11an HT20: ≤ -70dBm@MCS7 / 802.11an HT40: ≤ -68dBm@MCS7
802.11ac (VHT80): ≤ -57dBm@MCS9

Power consumption

Continue TX TBD

Continue RX TBD

Idle TBD

Operating Voltage

DC 3.3V ± 10% I/O supply voltage

Environmental

Temperature Range -40 ~ 85°C (Operating)

Humidity (Non-Condensing) TBD

Physical Specification

Dimensions 50.8x29.8x1 mm

Weight TBD

Software

Driver Linux

Security WEP, WPA, WPA2, WAPI, WPS

*Specifications are subject to change without notice