1 Overview

The WMX7203 module is a highly integrated wireless local area network (WLAN) mini PCIe module, the module based-on Qualcomm FastConnect 6900 series WCN685x/QCA206x and that is supporting 802.11ax Wi-Fi and Bluetooth v5.x.

The WMX7203 supports simultaneous operation on 2.4 GHz and 5 GHz or 2.4GHz and 6 GHz, also known as Dual Band Simultaneous (DBS).

2 Feature

2.1 WLAN

- Compliant with IEEE 802.11a/b/g/n/ac/ax
- Supports 2x2 Multi-User Multiple-Input Multiple-Output (MU-MIMO)
- Dual Band Simultaneous (DBS), up to 3.6 Gbps data rate (2x2+2x2 11ax DBS)
- Tri-band 2.4 GHz/5 GHz/6 GHz support
- 20 MHz/40 MHz channel bandwidth for 2.4 GHz
- 20 MHz/40 MHz/80 MHz/160 MHz channel bandwidth for 5 GHz/6 GHz
- Seamless antenna sharing with Bluetooth, LTE, LTE-U, and 5G
- Dynamic Frequency Selection (DFS, radar detection)
- Offloading traffic for minimal host utilization at 802.11ac/ax speeds
- Low-power PCIe (with L1 substate) interface
- Integrated close-loop power detector
- Monitor mode

2.2 Bluetooth

- Bluetooth V5.2, V5.1, V5.0, V4.2, V4.1, V4.0, V3.0, V2.1+EDR
- Compliant with Bluetooth Milan and ANT+

2.3 Security

- AES-CCMP at 128/256 bits
- WEP, TKIP hardware encryption
- WAPI-2 hardware encryption
- WPA/WPA2/WPA3
- FIPS 140-2 support

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