



2x2 2.4/5GHz 11ac miniPCIe Radio

Model: WLE600VX 7BA000S-I(Industrial grade)

Revision: 1.00 IL
Date: 2015.04.09

Features

- Qualcomm-Atheros QCA9892
- 2.4GHz max 21dBm & 5GHz max 20dBm output power (per chain)
- IEEE 802.11ac compliant & backward compatible with 802.11a/b/g/n
- 2X2 MIMO Technology & up to 867Mbps
- MiniPCI Express 1.1 interface
- Supports Spatial Multiplexing, Cyclic-Delay Diversity (CDD), low-density parity check (LDPC), Maximal Ratio Combining (MRC), Space Time Block Code (STBC)
- Supports IEEE 802.11d, e, h, I, k, RO, v time stamp, and w standards
- Supports Dynamic Frequency Selection (DFS)
- Cards are individually calibrated for Quality Assurance
- Supported by either CompexWRT with Atheros Reference Wireless Driver OR OpenWRT with ath10k Wireless Driver on WPJ344

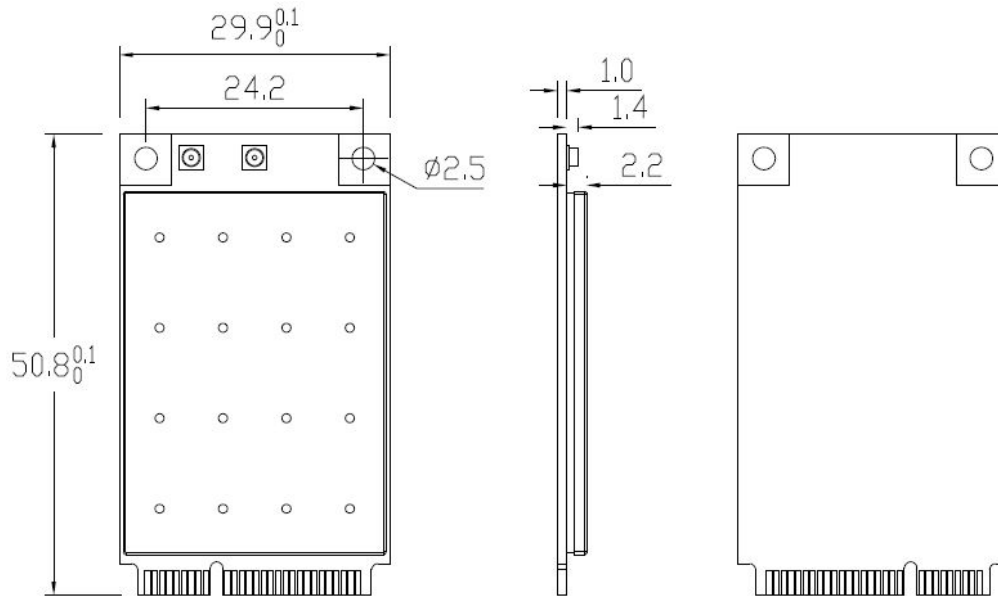
Applications(combined with WPJ344)

- Indoor AP
- Outdoor AP
- 802.11ac/abgn CPE
- 802.11ac/abgn Point to Point

Technical Specifications

| System Information | | | | | | | |
|-----------------------|---|----------------------|---------------------|-----------|-------------------|-------------|-----------|
| Chipset | QCA9892 | | | | | | |
| Host Interface | PCI-Express 1.1 Standard | | | | | | |
| Operating Voltage | 3.3 VDC | | | | | | |
| Power Consumption | 3.5W | | | | | | |
| Antenna Connector | 2 x U.F L | | | | | | |
| Frequency Range | 2.4G: 2.412 ~ 2.472 GHz 5G: 5.180 ~ 5.825 GHz | | | | | | |
| Modulation Techniques | BPSK, QPSK, DBPSK, DQPSK, CCK, 16-QAM, 64-QAM, 256-QAM | | | | | | |
| RoHS Compliance | Yes | | | | | | |
| Temperature Range | Operating: -40°C to 70°C Storage: -40°C to 90°C | | | | | | |
| Humidity | Operating: 5% to 95% (non-condensing) Storage: Max. 90% (non-condensing) | | | | | | |
| Dimensions (mm) | 50.95 x 30 x 3.2 (H x W x D) | | | | | | |
| Band | TX Specifications | | | | RX Specifications | | |
| | Data Rate | TX Power (per chain) | TX Power (2 chains) | Tolerance | Data Rate | Sensitivity | Tolerance |
| 802.11bg | 6-24Mbps | 21dBm | 24dBm | ±2dB | 6Mbps | -94dBm | ±2dB |
| | 36Mbps | 20dBm | 23dBm | ±2dB | 36Mbps | -86dBm | ±2dB |
| | 48Mbps | 19dBm | 22dBm | ±2dB | 48Mbps | -82dBm | ±2dB |
| | 54Mbps | 18dBm | 21dBm | ±2dB | 54Mbps | -80dBm | ±2dB |
| 2.4GHz 11n HT20 | MCS 0 | 21dBm | 24dBm | ±2dB | MCS 0 | -94dBm | ±2dB |
| | MCS 1 | 21dBm | 24dBm | ±2dB | MCS1 | -94dBm | ±2dB |
| | MCS 2 | 21dBm | 24dBm | ±2dB | MCS2 | -92dBm | ±2dB |
| | MCS 3 | 20dBm | 23dBm | ±2dB | MCS 3 | -88dBm | ±2dB |
| | MCS 4 | 20dBm | 23dBm | ±2dB | MCS 4 | -84dBm | ±2dB |
| | MCS 5 | 20dBm | 23dBm | ±2dB | MCS 5 | -81dBm | ±2dB |
| | MCS 6 | 18dBm | 21dBm | ±2dB | MCS 6 | -78dBm | ±2dB |
| | MCS 7 | 16dBm | 19dBm | ±2dB | MCS 7 | -77dBm | ±2dB |
| 2.4GHz 11n HT40 | MCS 0 | 20dBm | 23dBm | ±2dB | MCS 0 | -93dBm | ±2dB |
| | MCS 1 | 20dBm | 23dBm | ±2dB | MCS1 | -91dBm | ±2dB |
| | MCS 2 | 20dBm | 23dBm | ±2dB | MCS2 | -90dBm | ±2dB |
| | MCS 3 | 19dBm | 22dBm | ±2dB | MCS 3 | -85dBm | ±2dB |
| | MCS 4 | 19dBm | 22dBm | ±2dB | MCS 4 | -82dBm | ±2dB |
| | MCS 5 | 19dBm | 22dBm | ±2dB | MCS 5 | -78dBm | ±2dB |
| | MCS 6 | 18dBm | 21dBm | ±2dB | MCS 6 | -77dBm | ±2dB |
| | MCS 7 | 16dBm | 19dBm | ±2dB | MCS 7 | -75dBm | ±2dB |
| 802.11a | 6-24Mbps | 20dBm | 23dBm | ±2dB | 6Mbps | -94dBm | ±2dB |
| | 36Mbps | 19dBm | 22dBm | ±2dB | 36Mbps | -86dBm | ±2dB |
| | 48Mbps | 18dBm | 21dBm | ±2dB | 48Mbps | -82dBm | ±2dB |
| | 54Mbps | 17dBm | 20dBm | ±2dB | 54Mbps | -80dBm | ±2dB |
| 5GHz 11an/ac HT20 | MCS0 | 20dBm | 23dBm | ±2dB | MCS0 | -93dBm | ±2dB |
| | MCS1 | 20dBm | 23dBm | ±2dB | MCS1 | -91dBm | ±2dB |
| | MCS2 | 20dBm | 23dBm | ±2dB | MCS2 | -90dBm | ±2dB |
| | MCS3 | 19dBm | 22dBm | ±2dB | MCS3 | -85dBm | ±2dB |
| | MCS4 | 19dBm | 22dBm | ±2dB | MCS4 | -82dBm | ±2dB |
| | MCS5 | 17dBm | 20dBm | ±2dB | MCS5 | -78dBm | ±2dB |
| | MCS6 | 16dBm | 19dBm | ±2dB | MCS6 | -77dBm | ±2dB |
| | MCS7 | 16dBm | 19dBm | ±2dB | MCS7 | -75dBm | ±2dB |
| | MCS8 | 15dBm | 18dBm | ±2dB | MCS8 | -73dBm | ±2dB |
| | MCS9 | 15dBm | 18dBm | ±2dB | MCS9 | -71dBm | ±2dB |
| 5GHz 11n/ac HT40 | MCS0 | 20dBm | 23dBm | ±2dB | MCS0 | -93dBm | ±2dB |
| | MCS1 | 20dBm | 23dBm | ±2dB | MCS1 | -91dBm | ±2dB |
| | MCS2 | 20dBm | 23dBm | ±2dB | MCS2 | -90dBm | ±2dB |
| | MCS3 | 18dBm | 21dBm | ±2dB | MCS3 | -85dBm | ±2dB |
| | MCS4 | 18dBm | 21dBm | ±2dB | MCS4 | -82dBm | ±2dB |
| | MCS5 | 16dBm | 19dBm | ±2dB | MCS5 | -78dBm | ±2dB |
| | MCS6 | 15dBm | 18dBm | ±2dB | MCS6 | -77dBm | ±2dB |
| | MCS7 | 15dBm | 18dBm | ±2dB | MCS7 | -75dBm | ±2dB |
| | MCS8 | 14dBm | 17dBm | ±2dB | MCS8 | -73dBm | ±2dB |
| | MCS9 | 14dBm | 17dBm | ±2dB | MCS9 | -71dBm | ±2dB |
| 5GHz11ac HT80 | MCS0 | 20dBm | 23dBm | ±2dB | MCS0 | -89dBm | ±2dB |
| | MCS1 | 20dBm | 23dBm | ±2dB | MCS1 | -88dBm | ±2dB |
| | MCS2 | 20dBm | 23dBm | ±2dB | MCS2 | -85dBm | ±2dB |
| | MCS3 | 18dBm | 21dBm | ±2dB | MCS3 | -81dBm | ±2dB |
| | MCS4 | 18dBm | 21dBm | ±2dB | MCS4 | -79dBm | ±2dB |
| | MCS5 | 16dBm | 19dBm | ±2dB | MCS5 | -75dBm | ±2dB |
| | MCS6 | 15dBm | 18dBm | ±2dB | MCS6 | -74dBm | ±2dB |
| | MCS7 | 15dBm | 18dBm | ±2dB | MCS7 | -72dBm | ±2dB |
| | MCS8 | 14dBm | 17dBm | ±2dB | MCS8 | -70dBm | ±2dB |
| | MCS9 | 14dBm | 17dBm | ±2dB | MCS9 | -68dBm | ±2dB |

Dimension Drawing



Ordering Information

| Item Code | Chipset | Form factor | Card Information |
|--------------------|--------------|-------------|-------------------------------------|
| WLE600VX 7BA000S-I | Atheros 9892 | Full size | 2x2 802.11ac 2.4G/5G PCIe mini card |