

Dual Band 5GHz 2x2 MIMO 802.11ac Mini PCIe WiFi Module

Designed for Dual Band Wireless Access Points



Model: WLE600VX

KEY FEATURES

- Qualcomm Atheros QCA9882
- 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
- Mini PCI Express edge connector
- Supports Spatial Multiplexing, Cyclic-Delay Diversity (CDD), Low-Density Parity Check (LDPC) Codes, Maximal Ratio Combining (MRC), Space Time Block Code (STBC)
- Supports IEEE 802.11d, e, h, i, k, r, v time stamp, and w standards
- Supports Dynamic Frequency Selection (DFS)
- Cards are individually calibrated for Quality
 Assurance

Chipset	QCA9882
Reference Design	XB140
Host Interface	Mini PCI Express 1.1 Standard
Operating Voltage	3.3V DC
Antenna Connector	2x U.FL
Frequency Range	2.4GHz: 2.412GHz to 2.472GHz, or 5GHz: 5.180GHz to 5.825GHz, selectable dual band
Certification	FCC & CE Certified, RoHS Compliant
Power Consumption	3.5W (Max)
Supported Operating System	Supported by CompexWRT with Qualcomm Atheros reference wireless drivers or OpenWRT/LEDE with ath10k wireless drivers, on WPJ344, WPJ558, WPJ563, WPJ564, WPQ864, and WPQ865.
Modulation Techniques	OFDM: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM
Environmental Temperature	Operating: -20°C to 70°C, Storage: -40°C to 90°C
Environmental Humidity, non-condensing	Operating: 5% to 95%, Storage: Max. 90%
ESD Sensitivity	Class 1C
Dimensions (W × H × D)	30.0mm × 50.9mm × 3.2mm

Specifications



WIRELESS MODULES

RF Performance Table

	Data Rate	TX Power (per chain)	TX Power (2 chains)	Tolerance		Data Rate	RX Specifications Sensitivity	Tolerance
2.4GHz	1Mbps	20dBm	23dBm	±2dB		1Mbps	-95dBm	±2dB
	2Mbps	20dBm	23dBm	±2dB	2.4GHz	2Mbps	-94dBm	±2dB
802.11b	5.5Mbps	20dBm	23dBm	±2dB	802.11b	5.5Mbps	-92dBm	±2dB
	11Mbps	20dBm	23dBm	±2dB		11Mbps	-90dBm	±2dB
	6Mbps	21dBm	24dBm	±2dB		6Mbps	-94dBm	±2dB
	9Mbps	21dBm	24dBm	±2dB		9Mbps	-93dBm	±2dB
	12Mbps	21dBm	24dBm	±2dB		12Mbps	-92dBm	±2dB
2.4GHz	18Mbps	21dBm	24dBm	±2dB	2.4GHz	18Mbps	-90dBm	±2dB
802.11g	24Mbps	21dBm	24dBm	±2dB	802.11g	24Mbps	-88dBm	±2dB
	36Mbps	20dBm	23dBm	±2dB		36Mbps	-85dBm	±2dB
	48Mbps	19dBm	22dBm	±2dB		48Mbps	-81dBm	±2dB
	54Mbps	18dBm	21dBm	±2dB		54Mbps	-80dBm	±2dB
	MCS 0	21dBm	24dBm	±2dB		MCS 0	-93dBm	±2dB
	MCS 1	21dBm	24dBm	±2dB		MCS 1	-91dBm	±2dB
	MCS 2	21dBm	24dBm	±2dB	2.4GHz 802.11n HT20	MCS 2	-89dBm	±2dB
2.4GHz	MCS 3	20dBm	23dBm	±2dB		MCS 3	-84dBm	±2dB
802.11n HT20	MCS 4	20dBm	23dBm	±2dB		MCS 4	-83dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB		MCS 5	-78dBm	±2dB
	MCS 6	18dBm	21dBm	±2dB		MCS 6	-78dBm	±2dB
	MCS 7	16dBm	19dBm	±2dB		MCS 7	-76dBm	±2dB
	MCS 0	20dBm	23dBm	±2dB	2.4GHz 802.11n HT40	MCS 0	-92dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB		MCS 1	-88dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB		MCS 2	-85dBm	±2dB
2.4GHz	MCS 3	19dBm	22dBm	±2dB		MCS 3	-82dBm	±2dB
802.11n HT40	MCS 4	19dBm	22dBm	±2dB		MCS 4	-79dBm	±2dB
	MCS 5	19dBm	22dBm	±2dB		MCS 5	-75dBm	±2dB
	MCS 6	18dBm	21dBm	±2dB		MCS 6	-75dBm	±2dB
	MCS 7	16dBm	19dBm	±2dB		MCS 7	-73dBm	±2dB

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RF Performance Table

	Data Rate	TX Power (per chain)	TX Power (2 chains)	Tolerance	
	6Mbps	20dBm	23dBm	±2dB	
	9Mbps	20dBm	23dBm	±2dB	
	12Mbps	20dBm	23dBm	±2dB	
5GHz	18Mbps	20dBm	23dBm	±2dB	
802.11a	24Mbps	20dBm	23dBm	±2dB	8
	36Mbps	18dBm	21dBm	±2dB	
	48Mbps	16dBm	19dBm	±2dB	
	54Mbps	15dBm	18dBm	±2dB	
	MCS 0	19dBm	22dBm	±2dB	
	MCS 1	19dBm	22dBm	±2dB	
	MCS 2	19dBm	22dBm	±2dB	
5GHz	MCS 3	18dBm	21dBm	±2dB	
802.11n/ac	MCS 4	18dBm	21dBm	±2dB	80
HT20	MCS 5	17dBm	20dBm	±2dB	
	MCS 6	16dBm	19dBm	±2dB	
	MCS 7	14dBm	17dBm	±2dB	
	MCS 8	13dBm	16dBm	±2dB	
	MCS 0	18dBm	21dBm	±2dB	
	MCS 1	18dBm	21dBm	±2dB	
	MCS 2	18dBm	21dBm	±2dB	
	MCS 3	17dBm	20dBm	±2dB	
5GHz	MCS 4	17dBm	20dBm	±2dB	0.00
802.11n/ac HT40	MCS 5	16dBm	19dBm	±2dB	80
	MCS 6	15dBm	18dBm	±2dB	
	MCS 7	14dBm	17dBm	±2dB	
	MCS 8	13dBm	16dBm	±2dB	
	MCS 9	13dBm	16dBm	±2dB	
	MCS 0	18dBm	21dBm	±2dB	
	MCS 1	18dBm	21dBm	±2dB	
	MCS 2	18dBm	21dBm	±2dB	
	MCS 3	17dBm	20dBm	±2dB	
5GHz	MCS 4	17dBm	20dBm	±2dB	
802.11ac HT80	MCS 5	16dBm	19dBm	±2dB	80
	MCS 6	15dBm	18dBm	±2dB	
	MCS 7	14dBm	17dBm	±2dB	
	MCS 8	13dBm	16dBm	±2dB	
	MCS 9	13dBm	16dBm	±2dB	

	Data Rate	RX Specifications Sensitivity	Tolerance
	6Mbps	-94dBm	±2dB
	9Mbps	-94dBm	±2dB
	12Mbps	-92dBm	±2dB
5GHz	18Mbps	-90dBm	±2dB
802.11a	24Mbps	-86dBm	±2dB
	36Mbps	-84dBm	±2dB
	48Mbps	-81dBm	±2dB
	54Mbps	-80dBm	±2dB
	MCS 0	-93dBm	±2dB
	MCS 1	-90dBm	±2dB
	MCS 2	-87dBm	±2dB
5GHz	MCS 3	-83dBm	±2dB
802.11n/ac	MCS 4	-80dBm	±2dB
HT20	MCS 5	-77dBm	±2dB
	MCS 6	-74dBm	±2dB
	MCS 7	-73dBm	±2dB
	MCS 8	-71dBm	±2dB
	MCS 0	-90dBm	±2dB
	MCS 1	-88dBm	±2dB
	MCS 2	-85dBm	±2dB
	MCS 3	-82dBm	±2dB
5GHz	MCS 4	-79dBm	±2dB
802.11n/ac HT40	MCS 5	-75dBm	±2dB
	MCS 6	-73dBm	±2dB
	MCS 7	-73dBm	±2dB
	MCS 8	-69dBm	±2dB
	MCS 9	-66dBm	±2dB
5GHz 802.11ac HT80	MCS 0	-88dBm	±2dB
	MCS 1	-86dBm	±2dB
	MCS 2	-84dBm	±2dB
	MCS 3	-81dBm	±2dB
	MCS 4	-77dBm	±2dB
	MCS 5	-74dBm	±2dB
	MCS 6	-73dBm	±2dB
	MCS 7	-70dBm	±2dB
	MCS 8	-67dBm	±2dB
	MCS 9	-65dBm	±2dB

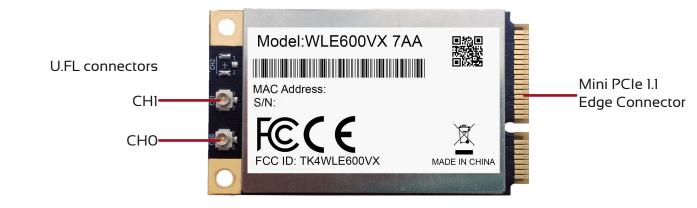


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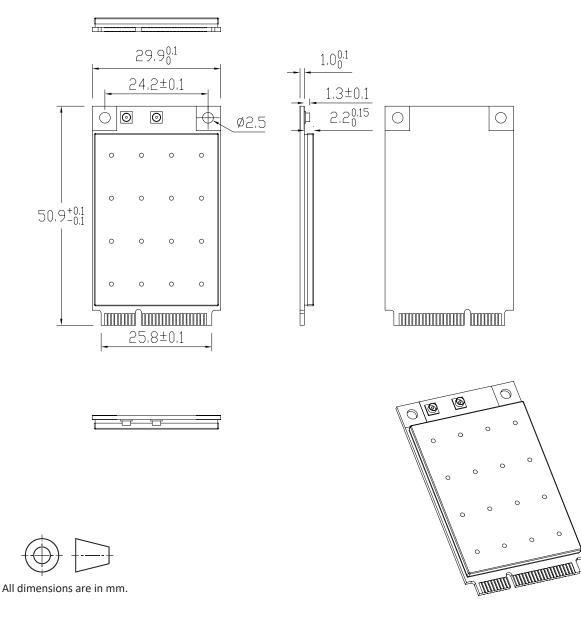


WIRELESS MODULES

Connector Map



Mechanical Dimensions





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Ordering Configuration

Item Code	Model	Description
WLE600VX 7AA000S	WLE600VX	2x2 802.11a/b/g/n/ac 2.4GHz/5GHz miniPCle card

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