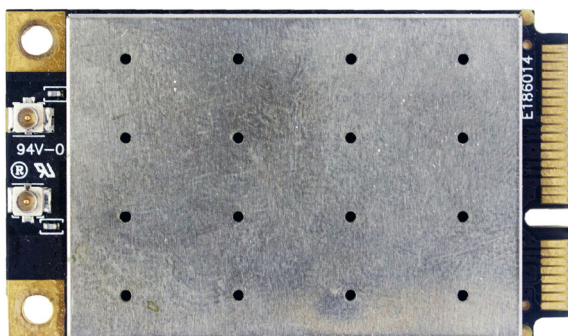


Dual Band 2x2 MIMO 802.11n Mini PCIe Module

Designed for Long Range 2.4GHz Band Wireless Access Points

Model: WLE200N2-23



KEY FEATURES

- Qualcomm Atheros AR9283
- 2.4GHz Single-band 2x2 MIMO spatial multiplexing technique
- Max 23dBm output power (per chain)
- IEEE 802.11n compliant & backward compatible with 802.11b/g
- 2x2 MIMO Technology, up to 300Mbps
- Mini PCI Express edge connector
- Supports IEEE 802.11i encryption, 802.1X authentication
- Supports IEEE 802.11d Global Harmonization Standard

Specifications

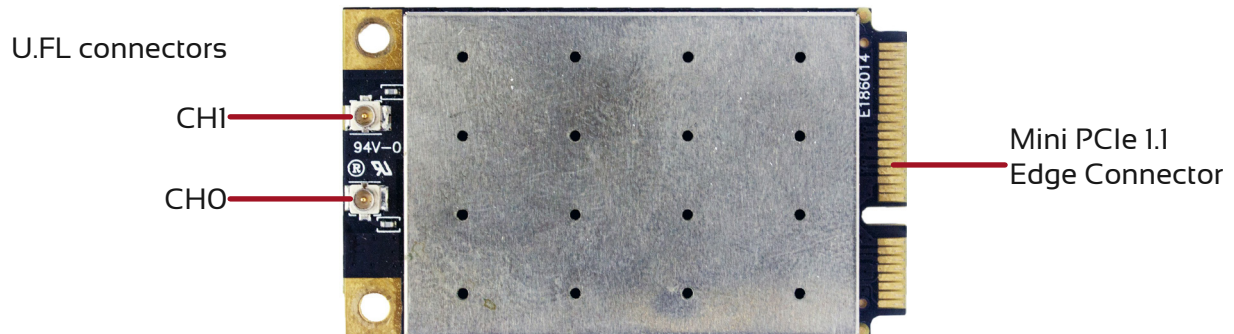
Chipset	AR9283
Host Interface	PCI Express 1.1 Standard
Operating Voltage	3.3V DC
Antenna Connector	2x U.FL
Frequency Range	2.4GHz: 2.412 ~ 2.484 GHz
Certification	RoHS Compliant
Power Consumption	2.5W
Modulation Techniques	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DSSS: DBPSK, DQPSK, CCK
Temperature Range	Operating: -20°C to 70°C Storage: -40°C to 90°C
Humidity	Operating: 5% to 95% (non-condensing) Storage: Max. 90% (non-condensing)
Dimensions (W x H x D)	30 x 50.95 x 3.2 mm

RF Performance Table

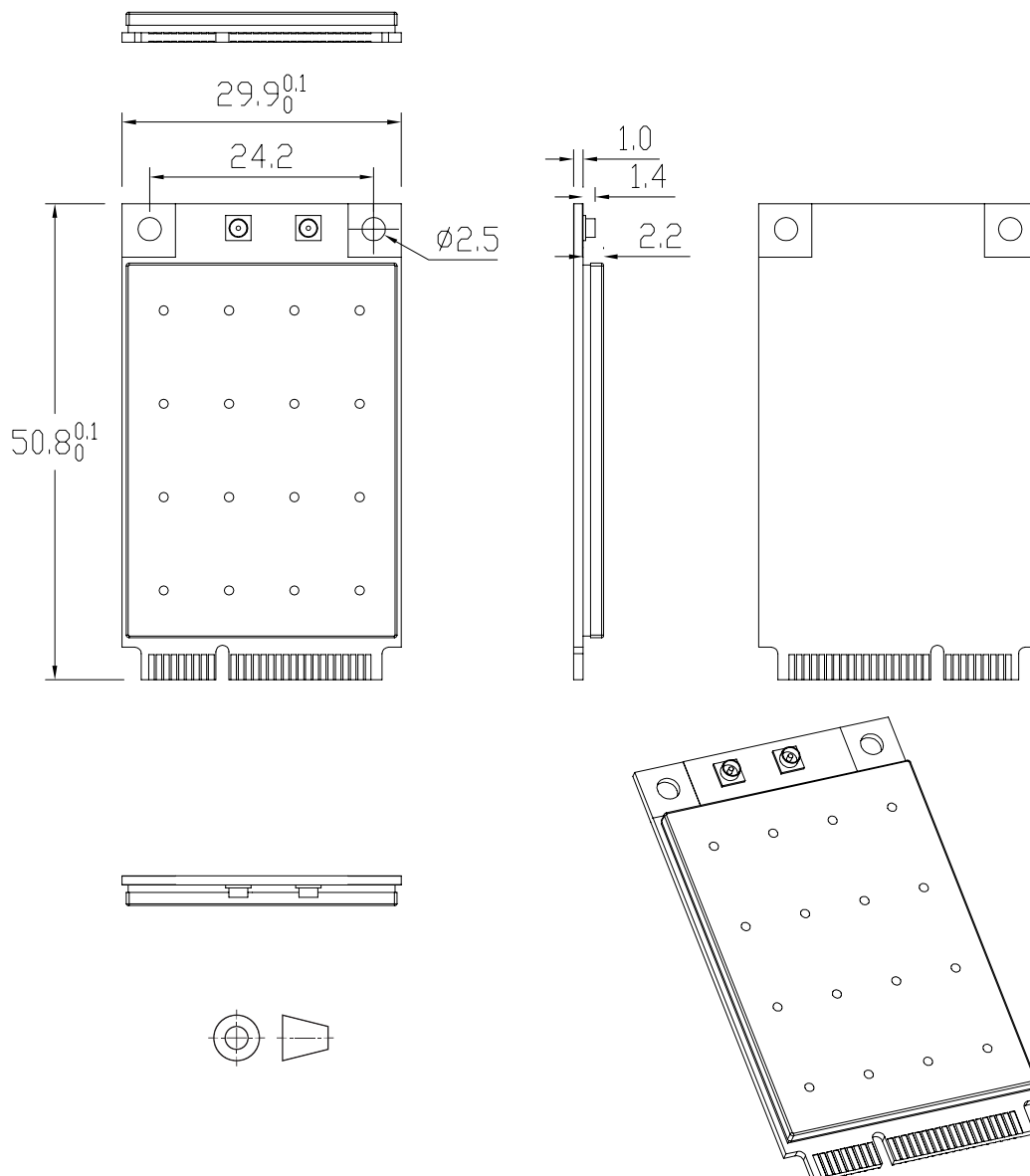
	Data Rate	TX Power (per chain)	TX Power (2 chains)	Tolerance
2.4GHz 802.11b	1Mbps	23dBm	26dBm	±2dB
	2Mbps	23dBm	26dBm	±2dB
	5.5Mbps	23dBm	26dBm	±2dB
	11Mbps	23dBm	26dBm	±2dB
2.4GHz 802.11g	6Mbps	23dBm	26dBm	±2dB
	9Mbps	23dBm	26dBm	±2dB
	12Mbps	23dBm	26dBm	±2dB
	18Mbps	23dBm	26dBm	±2dB
	24Mbps	23dBm	26dBm	±2dB
	36Mbps	22dBm	25dBm	±2dB
	48Mbps	20dBm	23dBm	±2dB
	54Mbps	19dBm	22dBm	±2dB
2.4GHz 802.11n HT20	MCS 0	23dBm	26dBm	±2dB
	MCS 1	23dBm	26dBm	±2dB
	MCS 2	23dBm	26dBm	±2dB
	MCS 3	22dBm	25dBm	±2dB
	MCS 4	21dBm	24dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB
	MCS 6	19dBm	22dBm	±2dB
	MCS 7	18dBm	21dBm	±2dB
2.4GHz 802.11n HT40	MCS 0	23dBm	26dBm	±2dB
	MCS 1	23dBm	26dBm	±2dB
	MCS 2	23dBm	26dBm	±2dB
	MCS 3	22dBm	25dBm	±2dB
	MCS 4	21dBm	24dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB
	MCS 6	19dBm	22dBm	±2dB
	MCS 7	18dBm	21dBm	±2dB

	Data Rate	RX Specifications Sensitivity	Tolerance
2.4GHz 802.11b	1Mbps	-96dBm	±2dB
	2Mbps	-96dBm	±2dB
	5.5Mbps	-95dBm	±2dB
	11Mbps	-93dBm	±2dB
2.4GHz 802.11g	6Mbps	-96dBm	±2dB
	9Mbps	-96dBm	±2dB
	12Mbps	-95dBm	±2dB
	18Mbps	-93dBm	±2dB
	24Mbps	-90dBm	±2dB
	36Mbps	-87dBm	±2dB
	48Mbps	-83dBm	±2dB
	54Mbps	-81dBm	±2dB
2.4GHz 802.11n HT20	MCS 0	-96dBm	±2dB
	MCS 1	-94dBm	±2dB
	MCS 2	-91dBm	±2dB
	MCS 3	-87dBm	±2dB
	MCS 4	-85dBm	±2dB
	MCS 5	-82dBm	±2dB
	MCS 6	-81dBm	±2dB
	MCS 7	-79dBm	±2dB
2.4GHz 802.11n HT40	MCS 0	-92dBm	±2dB
	MCS 1	-90dBm	±2dB
	MCS 2	-87dBm	±2dB
	MCS 3	-86dBm	±2dB
	MCS 4	-84dBm	±2dB
	MCS 5	-82dBm	±2dB
	MCS 6	-81dBm	±2dB
	MCS 7	-77dBm	±2dB

Connector Map



Mechanical Dimensions



Ordering Configuration

Item Code	Chipset	Form Factor	Card Information
WLE200N2-23 7A0000	AR9283	Standard size card	2x2 802.11b/g/n 2.4GHz Mini PCIe card

Packaging Information

Packaging Type	Dimensions	Weight	Dimensional Weight
Carton Box (250 units)	422 x 410 x 240 mm	4.59 kg	8.5 kg