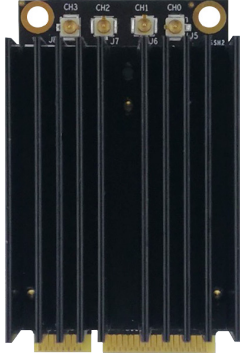


WiFi 6 (802.11ax) 4x4 MU-MIMO 2.4GHz Single Band Wireless Module

Model: WLE3000H2



KEY FEATURES

- Qualcomm Atheros QCN9024/9074
- 2.4GHz, 4x4 MU-MIMO OFDMA Technology, up to 1376.4Mbps physical data rate
- Single Band 2.4GHz 4x4 WiFi 6 (802.11ax)
- MiniPCIe interface with PCIe 3.0
- Heat sink allows free air operation
- Supports IEEE 802.11d, e, h, i, k, r, u, v time stamp, w standard
- Designed for High Bandwidth Enterprise Wireless Access Points

Specifications

Chipset	Qualcomm Atheros QCN9024/9074 'PINE' Series
System Memory	2Mbit serial I ² C bus EEPROM
Reference Design	PN01.1
Host Interface	MiniPCIe interface with PCIe 3.0
Operating Voltage	3.3V
Power Consumption	8W (Max)
Wireless	2.4GHz 802.11b/g/n/ax, max 20dBm per chain 4x U.FL Connectors
Frequency Range	2.412~2.472GHz
Modulation Techniques	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
Channel Spectrum Widths for WLAN	Supports 20/40MHz at 2.4GHz
Operating Systems	OpenWRT
Certification	REACH and RoHS Compliance
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%
Dimensions (W x H x D) in mm	TBD

*Configurations are subject to change without notifications.

RF Performance Table

	Data Rate	TX Power (per chain)	TX Power (4 chains)	Tolerance
2.4GHz 802.11b	1Mbps	20dBm	26dBm	±2dB
	2Mbps	20dBm	26dBm	±2dB
	5.5Mbps	20dBm	26dBm	±2dB
	11Mbps	20dBm	26dBm	±2dB
2.4GHz 802.11g	6Mbps	20dBm	26dBm	±2dB
	9Mbps	20dBm	26dBm	±2dB
	12Mbps	20dBm	26dBm	±2dB
	18Mbps	20dBm	26dBm	±2dB
	24Mbps	19dBm	25dBm	±2dB
	36Mbps	19dBm	25dBm	±2dB
	48Mbps	18dBm	24dBm	±2dB
	54Mbps	18dBm	24dBm	±2dB
2.4GHz 802.11n HT20	MCS 0	20dBm	26dBm	±2dB
	MCS 1	20dBm	26dBm	±2dB
	MCS 2	20dBm	26dBm	±2dB
	MCS 3	20dBm	26dBm	±2dB
	MCS 4	20dBm	26dBm	±2dB
	MCS 5	19dBm	25dBm	±2dB
	MCS 6	19dBm	25dBm	±2dB
	MCS 7	19dBm	25dBm	±2dB
2.4GHz 802.11n HT40	MCS 0	20dBm	26dBm	±2dB
	MCS 1	20dBm	26dBm	±2dB
	MCS 2	20dBm	26dBm	±2dB
	MCS 3	20dBm	26dBm	±2dB
	MCS 4	20dBm	26dBm	±2dB
	MCS 5	19dBm	25dBm	±2dB
	MCS 6	19dBm	25dBm	±2dB
	MCS 7	19dBm	25dBm	±2dB
2.4GHz 802.11ax HE20	MCS 0	20dBm	26dBm	±2dB
	MCS 1	20dBm	26dBm	±2dB
	MCS 2	20dBm	26dBm	±2dB
	MCS 3	20dBm	26dBm	±2dB
	MCS 4	20dBm	26dBm	±2dB
	MCS 5	19dBm	25dBm	±2dB
	MCS 6	19dBm	25dBm	±2dB
	MCS 7	19dBm	25dBm	±2dB
	MCS 8	18dBm	24dBm	±2dB
	MCS 9	18dBm	24dBm	±2dB
	MCS 10	17dBm	23dBm	±2dB
	MCS 11	17dBm	23dBm	±2dB
	MCS 12	16dBm	22dBm	±2dB
	MCS 13	16dBm	22dBm	±2dB

	Data Rate	RX Specifications Sensitivity	Tolerance
2.4GHz 802.11b	1Mbps	TBD	±2dB
	2Mbps	TBD	±2dB
	5.5Mbps	TBD	±2dB
	11Mbps	TBD	±2dB
2.4GHz 802.11g	6Mbps	TBD	±2dB
	9Mbps	TBD	±2dB
	12Mbps	TBD	±2dB
	18Mbps	TBD	±2dB
	24Mbps	TBD	±2dB
	36Mbps	TBD	±2dB
	48Mbps	TBD	±2dB
	54Mbps	TBD	±2dB
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	MCS 2	TBD	±2dB
	MCS 3	TBD	±2dB
	MCS 4	TBD	±2dB
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	MCS 7	TBD	±2dB
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2.4GHz 802.11ax HE20	MCS 0	TBD	±2dB
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	MCS 2	TBD	±2dB
	MCS 3	TBD	±2dB
	MCS 4	TBD	±2dB
	MCS 5	TBD	±2dB
	MCS 6	TBD	±2dB
	MCS 7	TBD	±2dB
	MCS 8	TBD	±2dB
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	MCS 11	TBD	±2dB
	MCS 12	TBD	±2dB
	MCS 13	TBD	±2dB

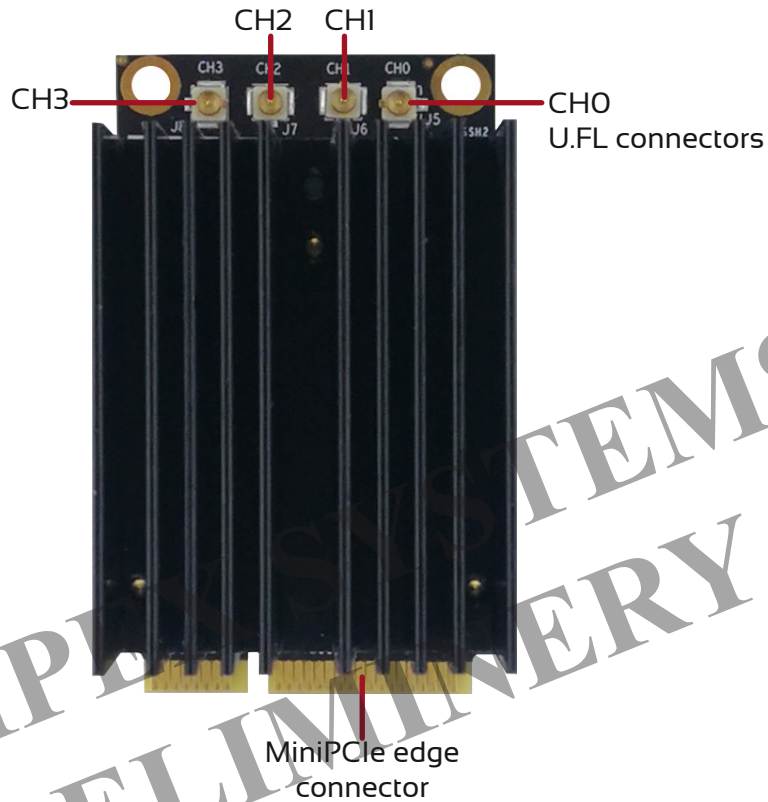
RF Performance Table

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	Data Rate	RX Specifications Sensitivity	Tolerance
2.4GHz 802.11ax HE40	MCS 0	TBD	±2dB
	MCS 1	TBD	±2dB
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	MCS 6	TBD	±2dB
	MCS 7	TBD	±2dB
	MCS 8	TBD	±2dB
	MCS 9	TBD	±2dB
	MCS 10	TBD	±2dB
	MCS 11	TBD	±2dB
	MCS 12	TBD	±2dB
	MCS 13	TBD	±2dB

COMPEX SYSTEMS
PRELIMINARY

Component Map



Ordering Configuration

Item Code	Model	Description
WLE3000H2 7A0000S2.0	WLE3000H2	QCN9024 4x4 802.11b/g/n/ax support 2.4GHz MiniPCIe interface with PCIe 3.0 Module