

AC-922

Product Specification



IEEE 802.11a/an/ac 4 x 4
PCI Express Mini Card

AC-922 Specifications



Hardware	
Standard	IEEE 802.11a/an/ac
Chipset	Qualcomm Atheros QCA9980
Host Interface	Mini PCI Express
Operating Voltage	DC 3.3V/1A, DC 5.0V/1.7A
Antenna Connector	u.FL compliant connector x 4

Output Power	IEEE 802.11a	IEEE 802.11n	IEEE 802.11ac	
	26dBm	26dBm	VHT20,MCS0: 28dBm	VHT40,MCS9: 22dBm
			VHT40,MCS0: 28dBm	VHT80,MCS9: 21dBm
			VHT80,MCS0: 28dBm	
			VHT20,MCS7: 26dBm	
			VHT40,MCS7: 26dBm	
			VHT80,MCS7: 25dBm	

Rx Sensitivity	IEEE 802.11a	IEEE 802.11n	IEEE 802.11ac	
	6Mbps: -98dBm	HT20,MCS0: -97dBm	VHT20,MCS0: -96dBm	VHT20,MCS8: -72dBm
	54Mbps: -80dBm	HT40,MCS0: -94dBm	VHT40,MCS0: -93dBm	VHT40,MCS8: -68dBm
		HT20,MCS7: -79dBm	VHT80,MCS0: -90dBm	VHT80,MCS8: -65dBm
		HT40,MCS7: -77dBm	VHT20,MCS7: -74dBm	VHT40,MCS9: -66dBm
			VHT40,MCS7: -72dBm	VHT80,MCS9: -63dBm
			VHT80,MCS7: -69dBm	

Modulation	IEEE 802.11a (OFDM)	IEEE 802.11n (OFDM)	IEEE 802.11ac (OFDM)	
	QAM-64	QAM-64	QAM-256	
	QAM-16	QAM-16	QAM-64	
	QPSK	QPSK	QAM-16	
	BPSK	BPSK	QPSK	
			BPSK	

Operating Frequency	FCC	CE
	5150~5250MHz	5150~5250MHz
	5250~5350MHz	5250~5350MHz
	5470~5725MHz	5470~5725MHz
	5725~5850MHz	

Security	
Standard	IEEE 802.1x security standard
Authentication	WEP / WPA / WPA2
Encryption	64-bit and 128-bit WEP / WPA (TKIP) / WPA2 (AES)

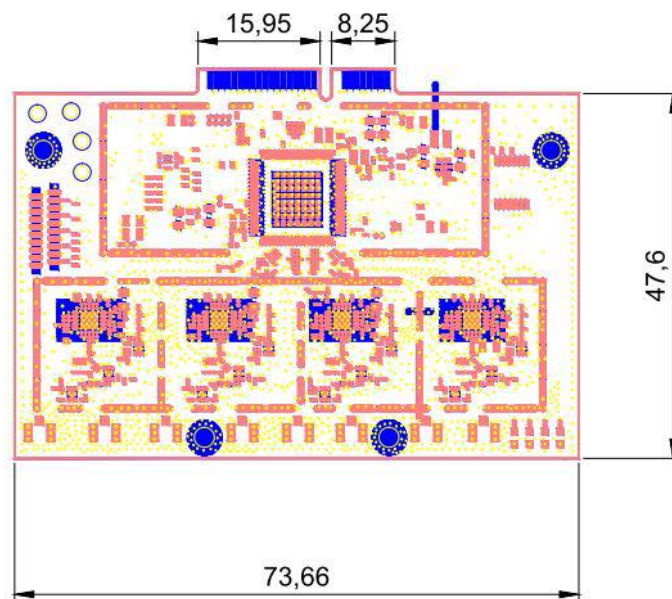
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Physical

Dimension	73.66mm (W) x 50.8mm (L)
Weight	≤ 15g

Environmental

Operating Temperature	-40 ~ +70°C
Operating Humidity	10 ~ 90% relative humidity non-condensing
Storage Temperature	-40 ~ +70°C
Storage Humidity	10 ~ 90% relative humidity non-condensing
Green	RoHS/REACH compliant
Warranty	12 months

Dimensions Outline

AC-922 Specifications



Pin Definition					
GPIO	Description	GPIO	Description	GPIO	Description
1	WAKE#	19	Reserved	37	Reserved
2	3.3V	20	WLAN Disable	38	Reserved
3	Chip power down Control#	21	GND	39	Reserved
4	GND	22	RESET#	40	GND
5	Reserved	23	PERn0	41	Reserved
6	Reserved	24	3.3V	42	Reserved
7	CLKREQ#	25	PERp0	43	GND
8	Reserved	26	GND	44	WLAN LED
9	GND	27	GND	45	5V
10	Reserved	28	Reserved	46	Reserved
11	REFCLK-	29	GND	47	5V
12	Reserved	30	Reserved	48	Reserved
13	REFCLK+	31	PETn0	49	5V
14	Reserved	32	Reserved	50	GND
15	GND	33	PETp0	51	5V
16	Reserved	34	GND	52	3.3V
17	Reserved	35	GND		
18	GND	36	Reserved		

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