



2x2 5GHz 11ac miniPCIe Radio

Model: YBTE5V9882-27

ac wave series

Features

- Qualcomm-Atheros QCA9882,CUS223 (High Power) Reference Design
- Maximum 27dBm output power (per chain), 30dBm (aggregate)
- IEEE 802.11ac complaint & backward compatible with 802.11a/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

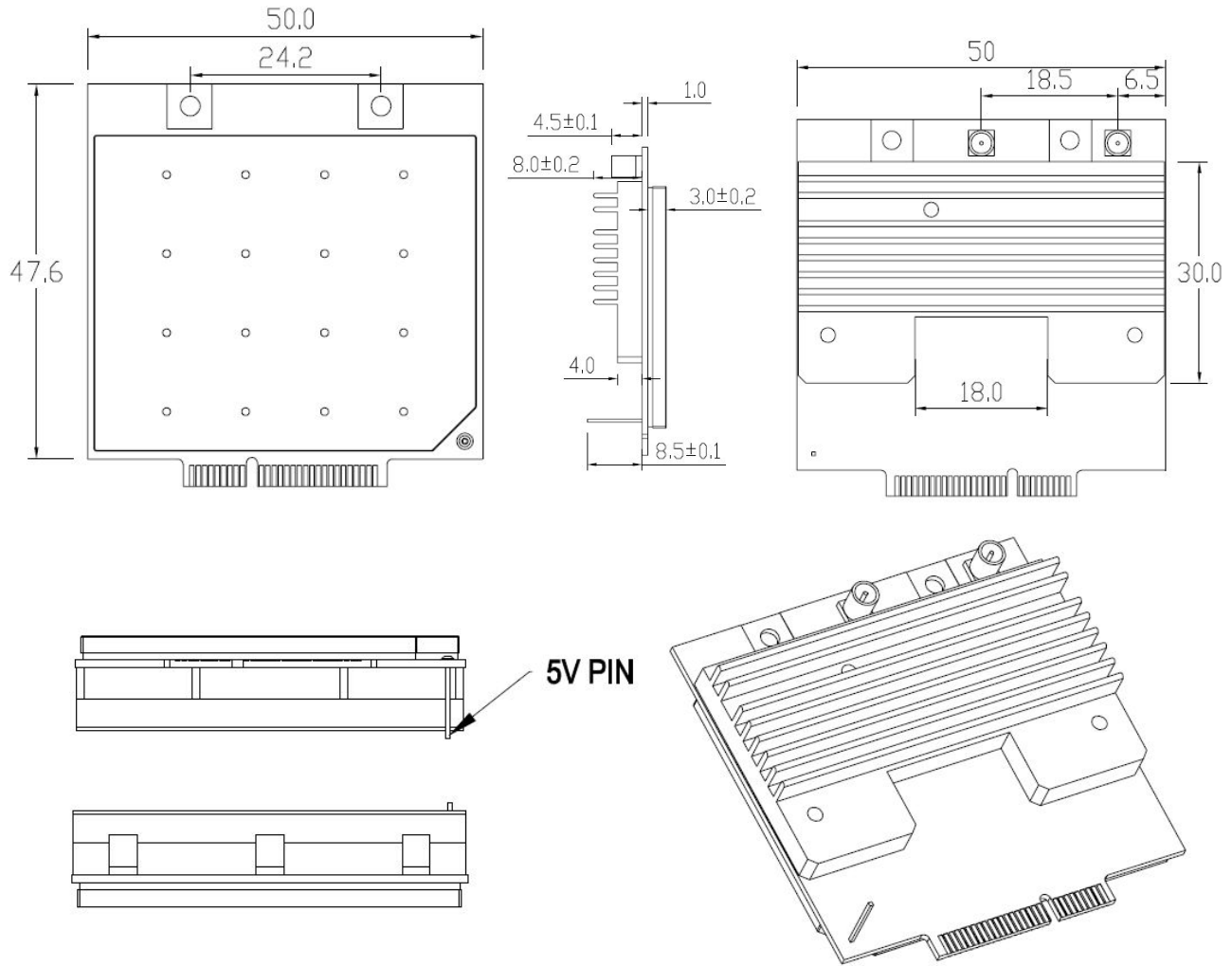
Applications

- Indoor AP
- Outdoor AP
- 802.11ac/an CPE
- 802.11ac/an Point to Point
- Base Station

Technical Specifications

System Information									
Chipset		Qualcomm-Atheros QCA9882							
Host Interface		PCI-Express 1.1 Standard							
Operating Voltage		3.3 VDC, 5V (compulsory and external) ¹							
Power Consumption		7.5W							
Antenna Connector		2 x MMCX Antenna Connector							
Frequency Range		5.150 ~ 5.875 GHz							
Modulation Techniques		OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM							
RoHS Compliance		Yes							
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 (mm)		50.95 x 50 x 3.2 (H x W x D)							
TX Specifications									
	Data Rate	TX Power (per chain)	TX Power (2 chains)	Tolerance		Data Rate	TX Power (per chain)	TX Power (2 chains)	Tolerance
802.11a	6Mbps	27dBm	30dBm	±2dB	5GHz 11n/ac HT20	MCS 0	27dBm	30dBm	±2dB
	9Mbps	27dBm	30dBm	±2dB		MCS 1	26dBm	29dBm	±2dB
	12Mbps	27dBm	30dBm	±2dB		MCS 2	26dBm	29dBm	±2dB
	18Mbps	27dBm	30dBm	±2dB		MCS 3	25dBm	28dBm	±2dB
	24Mbps	27dBm	30dBm	±2dB		MCS 4	25dBm	28dBm	±2dB
	36Mbps	25dBm	28dBm	±2dB		MCS 5	25dBm	28dBm	±2dB
	48Mbps	25dBm	28dBm	±2dB		MCS 6	24dBm	27dBm	±2dB
	54Mbps	24dBm	27dBm	±2dB		MCS 7	23dBm	26dBm	±2dB
						MCS 8	23dBm	26dBm	±2dB
				MCS 9	22dBm	25dBm	±2dB		
5GHz 11n/ac HT40	MCS 0	27dBm	30dBm	±2dB	5GHz 11ac HT80	MCS 0	27dBm	30dBm	±2dB
	MCS 1	26dBm	29dBm	±2dB		MCS 1	26dBm	29dBm	±2dB
	MCS 2	26dBm	29dBm	±2dB		MCS 2	26dBm	29dBm	±2dB
	MCS 3	25dBm	28dBm	±2dB		MCS 3	26dBm	29dBm	±2dB
	MCS 4	25dBm	28dBm	±2dB		MCS 4	26dBm	29dBm	±2dB
	MCS 5	25dBm	28dBm	±2dB		MCS 5	25dBm	28dBm	±2dB
	MCS 6	24dBm	27dBm	±2dB		MCS 6	25dBm	28dBm	±2dB
	MCS 7	23dBm	26dBm	±2dB		MCS 7	24dBm	27dBm	±2dB
	MCS 8	23dBm	26dBm	±2dB		MCS 8	23dBm	26dBm	±2dB
	MCS 9	22dBm	25dBm	±2dB		MCS 9	22dBm	25dBm	±2dB
RX Specifications									
	DataRate	Sensitivity	Tolerance		DataRate	Sensitivity	Tolerance		
802.11a	6Mbps	-94dBm	±2dB	5GHz 11n/ac HT20	MCS 0	-94dBm	±2dB		
	9Mbps	-94dBm	±2dB		MCS 1	-94dBm	±2dB		
	12Mbps	-94dBm	±2dB		MCS 2	-92dBm	±2dB		
	18Mbps	-92dBm	±2dB		MCS 3	-88dBm	±2dB		
	24Mbps	-89dBm	±2dB		MCS 4	-84dBm	±2dB		
	36Mbps	-86dBm	±2dB		MCS 5	-81dBm	±2dB		
	48Mbps	-82dBm	±2dB		MCS 6	-78dBm	±2dB		
	54Mbps	-80dBm	±2dB		MCS 7	-77dBm	±2dB		
					MCS 8	-74dBm	±2dB		
			MCS 9	-71dBm	±2dB				
5GHz 11n/ac HT40	MCS 0	-93dBm	±2dB	5GHz 11ac HT80	MCS 0	-89dBm	±2dB		
	MCS 1	-91dBm	±2dB		MCS 1	-88dBm	±2dB		
	MCS 2	-90dBm	±2dB		MCS 2	-85dBm	±2dB		
	MCS 3	-85dBm	±2dB		MCS 3	-81dBm	±2dB		
	MCS 4	-82dBm	±2dB		MCS 4	-79dBm	±2dB		
	MCS 5	-78dBm	±2dB		MCS 5	-75dBm	±2dB		
	MCS 6	-77dBm	±2dB		MCS 6	-74dBm	±2dB		
	MCS 7	-75dBm	±2dB		MCS 7	-72dBm	±2dB		
	MCS 8	-73dBm	±2dB		MCS 8	-70dBm	±2dB		
	MCS 9	-71dBm	±2dB		MCS 9	-68dBm	±2dB		

Dimension Drawing



Ordering Information

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