



2x2 5GHz 11ac miniPCIe Radio Model: WLE600V5-27-ESD

Revision:1.04 IL Date: 2014,10,10



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
- Built-in ESD Protection with ESD/EMP Immunity Threshold: 15KeV¹
- 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(combined with WPJ344)

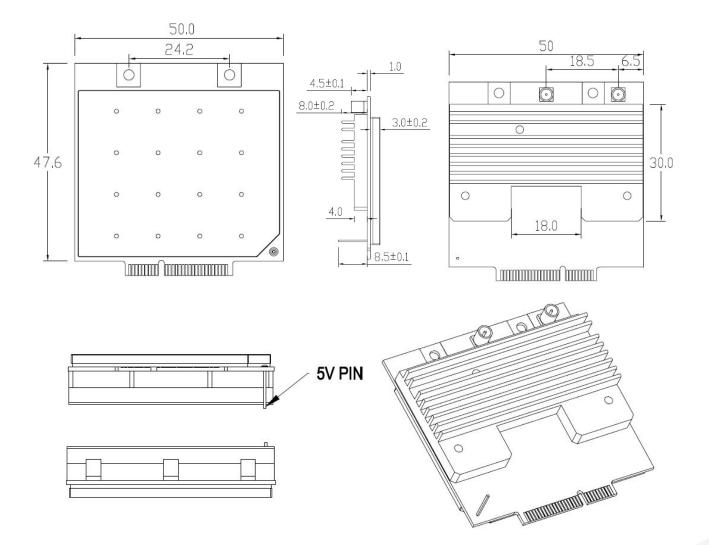
- Indoor AP
- Outdoor AP
- 802.11ac/an CPE
- 802.11ac/an Point to Point
- Base Station

Technical Specifications

System Information											
Chipset			Qualcomm-Atheros QCA9882								
Host Interface			PCI-Express 1.1 Standard								
Operating Voltage			3.3 VDC, 5V (compulsory and external) ²								
Power Consumption			7.5W								
Antenna Connector			2 x MMCX Antenna Connector								
Frequency Range			5.180 ~ 5.825 GHz								
Modulation Techniques			OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM								
Certificatio	ons		CE, FCC								
Temperatu	ire Range		Operating: -20°C to 70°C;								
Humidity			Operating:5% to 95% (non-condensing)								
Dimensions (mm)			50.95 x 50 x 3.2 (H x W x D)								
TX Specifications											
	Data Rate	тх	TX	Tolerance		Data Rate		X	тх		
		Power (per chain)	Power (2 chains)				Pov (per d	ver chain)	Power (2 chains)	Tolerance	
	6Mbps	27dBm	30dBm	±2dB	11n	MCS 0	27d	/	30dBm	±2dB	
802.11a	54Mbps	24dBm	27dBm	±2dB	HT20	MCS 7	23d		26dBm	±2dB	
11n	MCS 0	27dBm	30dBm	±2dB	11ac	MCS 0	27d	Bm	30dBm	±2dB	
HT40	MCS 7	23dBm	26dBm	±2dB	HT20	MCS 9	22dBm		25dBm	±2dB	
11ac	MCS 0	27dBm	30dBm	±2dB	11ac	MCS 0	27d	Bm	30dBm	±2dB	
HT40	MCS 9	22dBm	25dBm	±2dB	HT80	MCS 9	22dBm		25dBm	±2dB	
RX Specifications											
	DataR	ate S	ensitivity	Tolerance		DataR	Rate S		nsitivity	Tolerance	
802.11a	6Mbp	S	-96dBm	±2dB	11n	MCS	S 0 ·		95dBm	±2dB	
	54Mbj	os	-84dBm	±2dB	HT20	MCS 7		-	77dBm	±2dB	
11n	MCS 0 MCS 7		-92dBm	±2dB	11ac HT20	MCS 0 -9		94dBm	±2dB		
HT40			-77dBm	±2dB		MCS 9		-70dBm		±2dB	
11ac	MCS	0	-91dBm	±2dB	11ac	MCS 0 -		90dBm	±2dB		
HT40	MCS 9		-65dBm ±2dB		HT80	MCS 9		-61dBm		±2dB	

Module grounding cable included
Module requires an external 5V power source to the 5V pin. A cable is provided for connecting to the 5V source.

Dimension Drawing



Ordering Information

Item Code	Chipset	Form factor	Card Informations			
WLE600V5-27 8AB000ESD	Atheros 9882	Wide size	2x2 11ac 5GHz High Power miniPCIe Radio			

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