



acStation

Model: MMS344

FEATURES

- IEEE 802.11ac compliant and backward compatible with 802.11an
- Atheros 533MHz Networking Processor
- Up to 26dBm output power
- Data rates of up to 867Mbps in 802.11ac 80MHz channels
- Built-in 19dBi@5GHz dual-polarization antenna
- Integrated Power-over-Ethernet
- Antenna Alignment Signal Survey
- Distance adjustment for long-range transmission
- Adjustable antenna elevation (25° up/down)
- Weatherproof casing
- 4 x N-Type Connectors for External Antenna (optional)¹

TECHNICAL SPECIFICATIONS

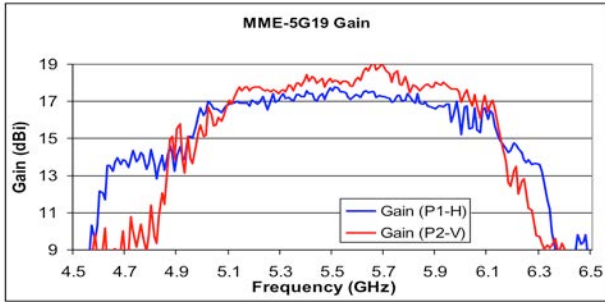
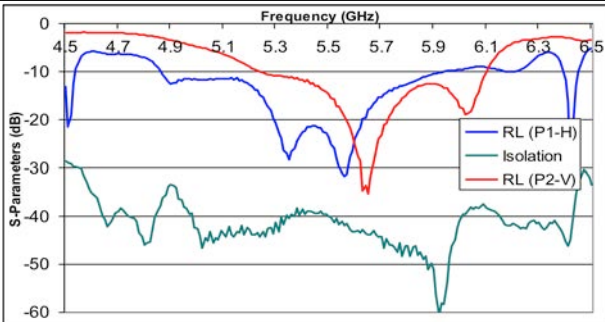
Processor	Qualcomm Atheros QCA9344 (533MHz)
Memory Size	128MB DDR2
NOR Flash	8MB (max 16MB optional) ¹
LAN Interface	2 X 10/100/1000 Base TX Ethernet Port (with Auto MDI/MDIX)
Antenna	Integrated 5GHz 19dBi directional dual-polarization antenna
Power Consumption	9.5 Watts
Power method	Passive PoE

External Connector	4 x N-Type male connectors (optional) ¹
RoHS Compliant	Yes
Humidity	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)
Temperature Range	Operating:-20°C to 70°C Storage: -40°C to 90°C
Dimensions (H x W x D)	257 x 257 x 86 (mm)

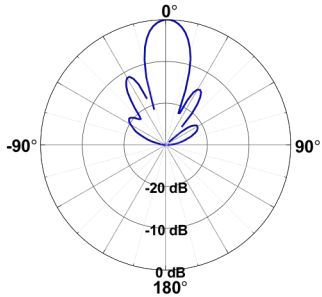
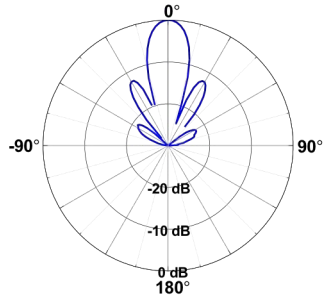
¹Depends on ordering configuration

MIMO MINIPCI CARD RADIO (WLE600V5-23)							
TX SPECIFICATIONS				RX SPECIFICATIONS			
	DataRate	TX Power (2 chains)	Tolerance		DataRate	Sensitivity (2 chains)	Tolerance
802.11a	6Mbps	26dBm	±2dB	802.11a	6Mbps	-94dBm	±2dB
	9Mbps	26dBm	±2dB		9Mbps	-94dBm	±2dB
	12Mbps	26dBm	±2dB		12Mbps	-94dBm	±2dB
	18Mbps	26dBm	±2dB		18Mbps	-92dBm	±2dB
	24Mbps	26dBm	±2dB		24Mbps	-89dBm	±2dB
	36Mbps	26dBm	±2dB		36Mbps	-86dBm	±2dB
	48Mbps	24dBm	±2dB		48Mbps	-82dBm	±2dB
	54Mbps	22dBm	±2dB		54Mbps	-80dBm	±2dB
5GHz 11n/11ac HT20	MCS 0	26dBm	±2dB	5GHz 11n/11ac HT20	MCS 0	-94dBm	±2dB
	MCS 1	26dBm	±2dB		MCS 1	-94dBm	±2dB
	MCS 2	26dBm	±2dB		MCS 2	-92dBm	±2dB
	MCS 3	26dBm	±2dB		MCS 3	-88dBm	±2dB
	MCS 4	26dBm	±2dB		MCS 4	-84dBm	±2dB
	MCS 5	26dBm	±2dB		MCS 5	-81dBm	±2dB
	MCS 6	24dBm	±2dB		MCS 6	-78dBm	±2dB
	MCS 7	22dBm	±2dB		MCS 7	-77dBm	±2dB
	MCS 8	20dBm	±2dB		MCS 8	-74dBm	±2dB
	MCS 9	19dBm	±2dB		MCS 9	-71dBm	±2dB
5GHz 11n/11ac HT40	MCS 0	26dBm	±2dB	5GHz 11n/11ac HT40	MCS 0	-93dBm	±2dB
	MCS 1	26dBm	±2dB		MCS 1	-91dBm	±2dB
	MCS 2	26dBm	±2dB		MCS 2	-90dBm	±2dB
	MCS 3	26dBm	±2dB		MCS 3	-85dBm	±2dB
	MCS 4	26dBm	±2dB		MCS 4	-82dBm	±2dB
	MCS 5	25dBm	±2dB		MCS 5	-78dBm	±2dB
	MCS 6	24dBm	±2dB		MCS 6	-77dBm	±2dB
	MCS 7	22dBm	±2dB		MCS 7	-75dBm	±2dB
	MCS 8	20dBm	±2dB		MCS 8	-73dBm	±2dB
	MCS 9	18dBm	±2dB		MCS 9	-71dBm	±2dB
5GHz 11ac HT80	MCS 0	26dBm	±2dB	5GHz 11ac HT80	MCS 0	-89dBm	±2dB
	MCS 1	26dBm	±2dB		MCS 1	-88dBm	±2dB
	MCS 2	26dBm	±2dB		MCS 2	-85dBm	±2dB
	MCS 3	26dBm	±2dB		MCS 3	-81dBm	±2dB
	MCS 4	26dBm	±2dB		MCS 4	-79dBm	±2dB
	MCS 5	25dBm	±2dB		MCS 5	-75dBm	±2dB
	MCS 6	24dBm	±2dB		MCS 6	-74dBm	±2dB
	MCS 7	22dBm	±2dB		MCS 7	-72dBm	±2dB
	MCS 8	20dBm	±2dB		MCS 8	-70dBm	±2dB
	MCS 9	18dBm	±2dB		MCS 9	-68dBm	±2dB

19dBi Antenna

Gain	19dBi
Radiation	Directional
Frequency Range	5.1-5.9 GHz
Polarization	Dual – Polarization
Azimuth -3dB Beamwidth	Horizontal(Port 1): 17 degrees Vertical(Port 2): 17 degrees
Elevation -3dB Beamwidth	Horizontal(Port 1): 17 degrees Vertical(Port 2): 17degrees
Isolation	-40dB (Max)
Front-to-Back Ratio	-25dB (Max)
VSWR	Horizontal (Port 1) : < 1: 1.87; Vertical (Port 2): < 1: 2.00
Cross Polarisation Isolation	-27dB (Max)
SideLobe	<-12dB
Gain Plot	
Return Loss & Isolation Plot	

Polar Plots (At 5.6GHz)

H-Pol Azimuth (Port 1 - H)	H-Pol Elevation (Port 2 – V)
	
V-Pol Azimuth (Port 2 – V)	V- Pol Elevation (Port 1 – H)
