

## PowerBridge M5: Carrier Class 5GHz MIMO Bridging Solution



Featuring Super-Efficient  
25dBi MIMO Antenna Array



SYSTEM INFORMATION							
Processor Specs	Atheros MIPS 24KC, 400MHz						
Memory Information	64MB SDRAM, 8MB Flash						
Networking Interface	1 X 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface						
REGULATORY / COMPLIANCE INFORMATION							
Wireless Approvals	FCC Part 15.247, IC RS210, CE						
RoHS Compliance	YES						
OPERATING FREQUENCY 5470MHz-5825MHz							
5GHz TX POWER SPECIFICATIONS			5GHz RX SPECIFICATIONS				
	DataRate	Avg. TX	Tolerance		DataRate	Sensitivity	Tolerance
11a	1-24Mbps	27 dBm	+/-2dB	11a	24Mbps	-83 dBm	+/-2dB
	36Mbps	25 dBm	+/-2dB		36Mbps	-80 dBm	+/-2dB
	48Mbps	23 dBm	+/-2dB		48Mbps	-77 dBm	+/-2dB
	54Mbps	22 dBm	+/-2dB		54Mbps	-75 dBm	+/-2dB
5GHz 11n	MCS0	27 dBm	+/-2dB	5GHz 11n	MCS0	-96 dBm	+/-2dB
	MCS1	27 dBm	+/-2dB		MCS1	-95 dBm	+/-2dB
	MCS2	27 dBm	+/-2dB		MCS2	-92 dBm	+/-2dB
	MCS3	27 dBm	+/-2dB		MCS3	-90 dBm	+/-2dB
	MCS4	26 dBm	+/-2dB		MCS4	-86 dBm	+/-2dB
	MCS5	24 dBm	+/-2dB		MCS5	-83 dBm	+/-2dB
	MCS6	22 dBm	+/-2dB		MCS6	-77 dBm	+/-2dB
	MCS7	21 dBm	+/-2dB		MCS7	-74 dBm	+/-2dB
	MCS8	27 dBm	+/-2dB		MCS8	-95 dBm	+/-2dB
	MCS9	27 dBm	+/-2dB		MCS9	-93 dBm	+/-2dB
	MCS10	27 dBm	+/-2dB		MCS10	-90 dBm	+/-2dB
	MCS11	27 dBm	+/-2dB		MCS11	-87 dBm	+/-2dB
	MCS12	26 dBm	+/-2dB		MCS12	-84 dBm	+/-2dB
	MCS13	24 dBm	+/-2dB		MCS13	-79 dBm	+/-2dB
	MCS14	22 dBm	+/-2dB		MCS14	-78 dBm	+/-2dB
MCS15	21 dBm	+/-2dB	MCS15	-75 dBm	+/-2dB		
PHYSICAL / ELECTRICAL / ENVIRONMENTAL							
Enclosure Size	445 x 416 x 34mm						
Weight	3.82kg						
Enclosure Characteristics	Outdoor UV Stabilized Plastic						
Mounting Kit	Pole Mounting Kit included						
Max Power Consumption	8 Watts						
Power Supply	24V, 1A surge protection integrated POE adapter included						
Power Method	Passive Power over Ethernet (pairs 4,5+; 7,8 return)						
Operating Temperature	-30C to +80C						
Operating Humidity	5 to 95% Condensing						
Shock and Vibration	ETSI300-019-1.4						
INTEGRATED 2x2 MIMO ANTENNA							
Frequency Range	4.9-6.0 GHz	Max VSWR	1.1:1				
Gain	24.8-26.5 dBi	H-pol Beamwidth	6 deg.				
Polarization	Dual Linear	V-pol Beamwidth	6 deg.				
Cross-pol Isolation	28dB minimum	Elevation Beamwidth	6 deg.				
VSWR	H-Pol Azimuth	H-Pol Elevation	V-Pol Azimuth	V-Pol Elevation			