

## PowerBridge M3: Carrier Class Licensed 3.5GHz AirMax Bridge



**airMAX**  
MIMO TDMA Protocol

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 90Y							
RoHS Compliance		YES							
OPERATING FREQUENCY 3400MHz-3700MHz									
TX POWER SPECIFICATIONS				RX SPECIFICATIONS					
	DataRate	Avg. TX	Tolerance		DataRate	Sensitivity	Tolerance		
AirMax	MCS0	25 dBm	+/-2dB	Airmax	MCS0	-94 dBm	+/-2dB		
	MCS1	25 dBm	+/-2dB		MCS1	-93 dBm	+/-2dB		
	MCS2	25 dBm	+/-2dB		MCS2	-90 dBm	+/-2dB		
	MCS3	25 dBm	+/-2dB		MCS3	-89 dBm	+/-2dB		
	MCS4	24 dBm	+/-2dB		MCS4	-86 dBm	+/-2dB		
	MCS5	23 dBm	+/-2dB		MCS5	-83 dBm	+/-2dB		
	MCS6	22 dBm	+/-2dB		MCS6	-77 dBm	+/-2dB		
	MCS7	20 dBm	+/-2dB		MCS7	-74 dBm	+/-2dB		
	MCS8	25 dBm	+/-2dB		MCS8	-93 dBm	+/-2dB		
	MCS9	25 dBm	+/-2dB		MCS9	-91 dBm	+/-2dB		
	MCS10	25 dBm	+/-2dB		MCS10	-89 dBm	+/-2dB		
	MCS11	25 dBm	+/-2dB		MCS11	-87 dBm	+/-2dB		
	MCS12	24 dBm	+/-2dB		MCS12	-84 dBm	+/-2dB		
	MCS13	23 dBm	+/-2dB		MCS13	-79 dBm	+/-2dB		
	MCS14	22 dBm	+/-2dB		MCS14	-78 dBm	+/-2dB		
MCS15	20 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 DUAL-POLARITY ANTENNA									
Frequency Range	3.3-3.8GHz			Max VSWR	1.5:1				
Gain	20 dBi			H-pol Beamwidth	13.5 deg.				
Polarization	Dual Linear			V-pol Beamwidth	13.5 deg				
Cross-pol Isolation	28dB minimum			Elevation Beamwidth	13.5 deg.				
VSWR		H-Pol Azimuth		H-Pol Elevation		V-Pol Azimuth		V-Pol Elevation	