

## NanoStation M2: 2.4GHz Hi Power 2x2 MIMO AirMax TDMA Station

The Most Powerful NanoStation Ever.

**airMAX**  
MIMO TDMA Protocol



SYSTEM INFORMATION							
Processor Specs		Atheros MIPS 24KC, 400MHz					
Memory Information		32MB SDRAM, 8MB Flash					
Networking Interface		2 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 2412MHz-2462MHz							
TX POWER SPECIFICATIONS			RX SPECIFICATIONS				
11b/g	DataRate	Avg. TX	Tolerance	11b/g	DataRate	Sensitivity	Tolerance
	1-24Mbps	28 dBm	+/-2dB		1-24Mbps	-97 dBm min	+/-2dB
	36Mbps	26 dBm	+/-2dB		36Mbps	-80 dBm	+/-2dB
	48Mbps	25 dBm	+/-2dB		48Mbps	-77 dBm	+/-2dB
11n / Airmax	MCS0	28 dBm	+/-2dB	11n / Airmax	MCS0	-96 dBm	+/-2dB
	MCS1	28 dBm	+/-2dB		MCS1	-95 dBm	+/-2dB
	MCS2	28 dBm	+/-2dB		MCS2	-92 dBm	+/-2dB
	MCS3	28 dBm	+/-2dB		MCS3	-90 dBm	+/-2dB
	MCS4	27 dBm	+/-2dB		MCS4	-86 dBm	+/-2dB
	MCS5	25 dBm	+/-2dB		MCS5	-83 dBm	+/-2dB
	MCS6	23 dBm	+/-2dB		MCS6	-77 dBm	+/-2dB
	MCS7	22 dBm	+/-2dB		MCS7	-74 dBm	+/-2dB
	MCS8	28 dBm	+/-2dB		MCS8	-95 dBm	+/-2dB
	MCS9	28 dBm	+/-2dB		MCS9	-93 dBm	+/-2dB
	MCS10	28 dBm	+/-2dB		MCS10	-90 dBm	+/-2dB
	MCS11	28 dBm	+/-2dB		MCS11	-87 dBm	+/-2dB
	MCS12	27 dBm	+/-2dB		MCS12	-84 dBm	+/-2dB
	MCS13	25 dBm	+/-2dB		MCS13	-79 dBm	+/-2dB
	MCS14	23 dBm	+/-2dB		MCS14	-78 dBm	+/-2dB
MCS15	22 dBm	+/-2dB	MCS15	-75 dBm	+/-2dB		
PHYSICAL / ELECTRICAL / ENVIRONMENTAL							
Enclosure Size		29.4 cm x 8 cm x 3cm					
Weight		0.4kg					
Enclosure Characteristics		Outdoor UV Stabilized Plastic					
Mounting Kit		Pole Mounting Kit included					
Max Power Consumption		8 Watts					
Power Supply		24V, 0.5A 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	2.32-2.55 GHz	Max VSWR	1.6:1				
Gain	10.4-11.2 dBi	H-pol Beamwidth	55 deg.				
Polarization	Dual Linear	V-pol Beamwidth	53 deg.				
Cross-pol Isolation	23dB minimum	Elevation Beamwidth	27 deg.				
VSWR		H-Pol Azimuth		H-Pol Elevation			
		V-Pol Azimuth		V-Pol Elevation			