

## NanoStation Loco M2: Compact and cost-effective AirMax 2GHz CPE

**airMAX**  
MIMO TDMA Protocol



SYSTEM INFORMATION				
Processor Specs	Atheros MIPS 24KC, 400MHZ			
Memory Information	32MB 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 2412-2462MHz				
2.4GHz TX POWER SPECIFICATIONS			2.4GHz RX SPECIFICATIONS	
	DataRate	Avg. TX	Tolerance	
11b/g	1-24Mbps	23 dBm	+/-2dB	11b/g
	36Mbps	21 dBm	+/-2dB	
	48Mbps	19 dBm	+/-2dB	
	54Mbps	18 dBm	+/-2dB	
11n / AirMax	MCS0	23 dBm	+/-2dB	11n / AirMax
	MCS1	23 dBm	+/-2dB	
	MCS2	23 dBm	+/-2dB	
	MCS3	23 dBm	+/-2dB	
	MCS4	22 dBm	+/-2dB	
	MCS5	20 dBm	+/-2dB	
	MCS6	18 dBm	+/-2dB	
	MCS7	17 dBm	+/-2dB	
	MCS8	23 dBm	+/-2dB	
	MCS9	23 dBm	+/-2dB	
	MCS10	23 dBm	+/-2dB	
	MCS11	23 dBm	+/-2dB	
	MCS12	22 dBm	+/-2dB	
	MCS13	20 dBm	+/-2dB	
	MCS14	18 dBm	+/-2dB	
MCS15	17 dBm	+/-2dB		
	DataRate	Sensitivity	Tolerance	
	24Mbps	-83 dBm	+/-2dB	
	36Mbps	-80 dBm	+/-2dB	
	48Mbps	-77 dBm	+/-2dB	
	54Mbps	-75 dBm	+/-2dB	
	MCS0	-96 dBm	+/-2dB	
	MCS1	-95 dBm	+/-2dB	
	MCS2	-92 dBm	+/-2dB	
	MCS3	-90 dBm	+/-2dB	
	MCS4	-86 dBm	+/-2dB	
	MCS5	-83 dBm	+/-2dB	
	MCS6	-77 dBm	+/-2dB	
	MCS7	-74 dBm	+/-2dB	
	MCS8	-95 dBm	+/-2dB	
	MCS9	-93 dBm	+/-2dB	
	MCS10	-90 dBm	+/-2dB	
	MCS11	-87 dBm	+/-2dB	
	MCS12	-84 dBm	+/-2dB	
	MCS13	-79 dBm	+/-2dB	
	MCS14	-78 dBm	+/-2dB	
	MCS15	-75 dBm	+/-2dB	
PHYSICAL / ELECTRICAL / ENVIRONMENTAL				
Enclosure Size	163 x 31 x80 mm			
Weight	0.18kg			
Enclosure Characteristics	Outdoor UV Stabilized Plastic			
Mounting Kit	Pole Mounting Kit included			
Max Power Consumption	5.5 Watts			
Power Supply	24V, 0.5A surge portection 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	2.3-2.5 GHz		Max VSWR	1.4: 1
Gain	8 dBi		H-pol Beamwidth	60 deg.
Polarization	Dual Linear		V-pol Beamwidth	60 deg.
Cross-pol Isolation	20dB minimum		Elevation Beamwidth	60 deg.
VSWR		H-Pol Azimuth		H-Pol Elevation
		V-Pol Azimuth		V-Pol Elevation