

NanoStation M5: 5GHz 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 5745MHz-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 | 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 | 15V, 0.8A 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 | 4.9-5.9 GHz | Max VSWR | 1.6:1 | | | | |
| Gain | 14.6-16.1dBi | H-pol Beamwidth | 43 deg. | | | | |
| Polarization | Dual Linear | V-pol Beamwidth | 41 deg. | | | | |
| Cross-pol Isolation | 22dB minimum | Elevation Beamwidth | 15 deg. | | | | |
| | | | | | | | |
| VSWR | H-Pol Azimuth | H-Pol Elevation | V-Pol Azimuth | V-Pol Elevation | | | |