



NanoStation™ M

NanoStation™ loco M

Indoor/Outdoor airMAX™ CPE

Models: NSM2, NSM3, NSM365, NSM5, locoM2, locoM5, locoM9

Cost-Effective, High-Performance

Compact and Versatile Design

Powerful Integrated Antenna

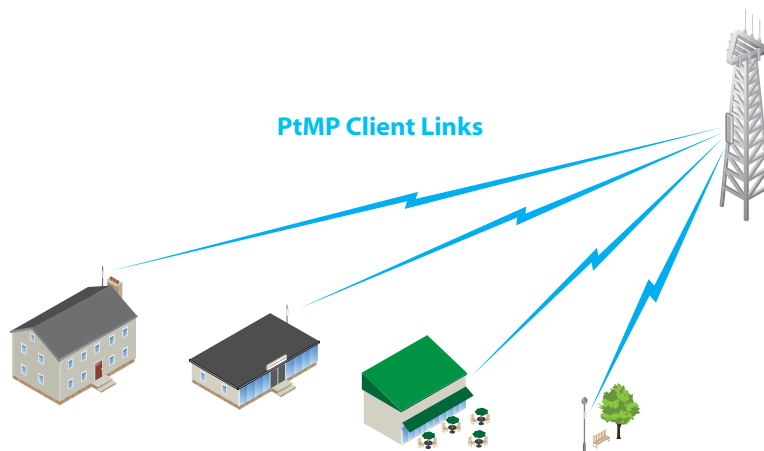


Overview

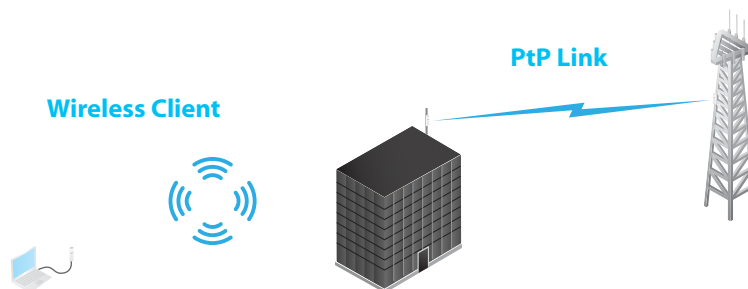
Leading-Edge Industrial Design

Ubiquiti Networks™ set the bar for the world's first low-cost and efficient broadband Customer Premises Equipment (CPE) with the original NanoStation™. The NanoStationM and NanoStationlocoM take the same concept to the future with sleek and elegant form factors, along with integrated airMAX™ (MIMO TDMA protocol) technology.

The low cost, high performance, and small form factor of NanoStationM and NanoStationlocoM make them extremely versatile and economical to deploy.



NanoStationM as powerful clients in an airMAX PtMP (Point-to-Multi-Point) network setup.



NanoStationM as a powerful wireless client.

Use two NanoStationM to create a PtP link.

Utilize airMAX Technology

Unlike standard Wi-Fi protocol, Ubiquiti's Time Division Multiple Access (TDMA) airMAX protocol allows each client to send and receive data using pre-designated time slots scheduled by an intelligent AP controller.

This "time slot" method eliminates hidden node collisions and maximizes airtime efficiency. It provides many magnitudes of performance improvements in latency, throughput, and scalability compared to all other outdoor systems in its class.

Intelligent QoS Priority is given to voice/video for seamless streaming.

Scalability High capacity and scalability.

Long Distance Capable of high-speed, carrier-class links.

Latency Multiple features dramatically reduce noise.

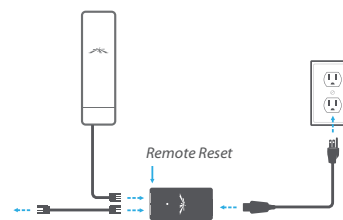
Dual Ethernet Connectivity¹

The NanoStationM provides a secondary Ethernet port with software-enabled PoE output for seamless IP video integration.



Intelligent PoE²

Remote hardware reset circuitry of the NanoStationM allows the device to be remotely reset from the power supply location.

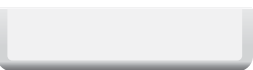
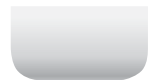


The NanoStationM may also be powered by the Ubiquiti Networks TOUGHSwitch PoE. In addition, any NanoStationM can easily become 48V, 802.3af compliant through use of the Ubiquiti Instant 802.3af Adapter (sold separately).

¹ Only NanoStationM models

² Remote reset is an option that is sold separately as the POE-24. The NanoStationM includes a 24V PoE adapter without remote reset.

Models



NanoStation™ M

| Model | Frequency | Gain |
|--------|-----------|--------|
| NSM2 | 2.4 GHz | 11 dBi |
| NSM3 | 3 GHz | 13 dBi |
| NSM365 | 3.65 GHz | 13 dBi |
| NSM5 | 5 GHz | 16 dBi |

NanoStation™ loco M

| Model | Frequency | Gain |
|--------|-----------|--------|
| locoM2 | 2.4 GHz | 8 dBi |
| locoM5 | 5 GHz | 13 dBi |

NanoStation™ loco M

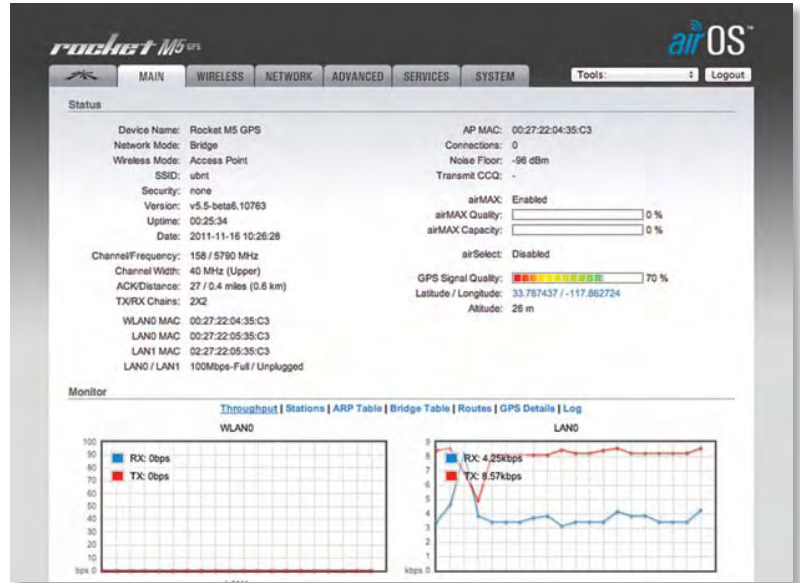
| Model | Frequency | Gain |
|--------|-----------|-------|
| locoM9 | 900 MHz | 8 dBi |

Software

airOS™

airOS is an intuitive, versatile, highly developed Ubiquiti firmware technology. It is exceptionally intuitive and was designed to require no training to operate. Behind the user interface is a powerful firmware architecture, which enables high-performance, outdoor multi-point networking.

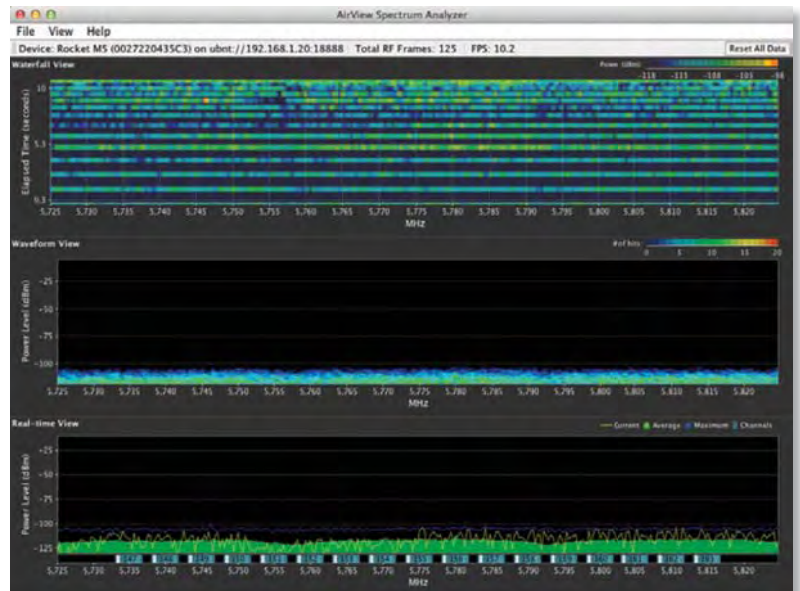
- Protocol Support
- Ubiquiti Channelization
- Spectral Width Adjustment
- ACK Auto-Timing
- AAP Technology
- Multi-Language Support



airView™

Integrated on all Ubiquiti M products, airView provides advanced spectrum analyzer functionality: waterfall, waveform, and real-time spectral views allow operators to identify noise signatures and plan their networks to minimize noise interference.

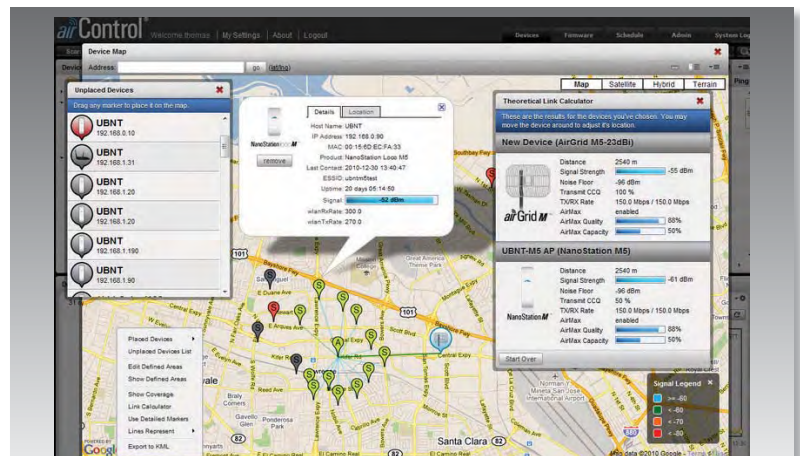
- **Waterfall** Aggregate energy over time for each frequency.
- **Waveform** Aggregate energy collected.
- **Real-time** Energy is shown in real time as a function of frequency.
- **Recording** Automize AirView to record and report results.



airControl™

airControl is a powerful and intuitive, web-based server network management application, which allows operators to centrally manage entire networks of Ubiquiti devices.

- Network Map
- Monitor Device Status
- Mass Firmware Upgrade
- Web UI Access
- Manage Groups of Devices
- Task Scheduling



Specifications

| System Information | | | |
|----------------------|----------------------------|----------------------------|----------------------------|
| Model | NanoStationM | locoM5/M2 | locoM9 |
| Processor Specs | Atheros MIPS 24KC, 400 MHz | Atheros MIPS 24KC, 400 MHz | Atheros MIPS 24KC, 400 MHz |
| Memory | 32 MB SDRAM, 8 MB Flash | 32 MB SDRAM, 8 MB Flash | 64 MB SDRAM, 8 MB Flash |
| Networking Interface | (2) 10/100 Ethernet Ports | (1) 10/100 Ethernet Port | (1) 10/100 Ethernet Port |

| Regulatory/Compliance Information | | | | |
|-----------------------------------|-------------------------------|------|--------------|---------------------------|
| Model | NSM5/NSM2/locoM5/locoM2 | NSM3 | NSM365 | locoM9 |
| Wireless Approvals | FCC Part 15.247, IC RS210, CE | - | FCC Part 90Z | FCC Part 15.247, IC RS210 |
| RoHS Compliance | Yes | Yes | Yes | Yes |

| Physical/Electrical/Environmental | | | | | | |
|-----------------------------------|--------------------------------------------------------|---------------|---------------|---------------|---------------|-----------------|
| Model | NSM5 | NSM3/365 | NSM2 | locoM5 | locoM2 | locoM9 |
| Dimensions (mm) | 294 x 31 x 80 | 294 x 31 x 80 | 294 x 31 x 80 | 163 x 31 x 80 | 163 x 31 x 80 | 164 x 72 x 199 |
| Weight | 0.4 kg | 0.5 kg | 0.4 kg | 0.18 kg | 0.18 kg | 0.9 kg |
| Power Supply (PoE) | 24V, 0.5A | 24V, 0.5A | 24V, 0.5A | 24V, 0.5A | 24V, 0.5A | 24V, 0.5A |
| Max. Power Consumption | 8 W | 8 W | 8 W | 5.5 W | 5.5 W | 6.5 W |
| Gain | 16 dBi | 13.7 dBi | 11 dBi | 13 dBi | 8 dBi | 8 dBi |
| RF Connector | - | - | - | - | - | External RP-SMA |
| Polarization | Dual Linear | | | | | |
| Enclosure Characteristics | Outdoor UV Stabilized Plastic | | | | | |
| Mounting | Pole Mounting Kit Included | | | | | |
| Power Method | Passive Power over Ethernet (pairs 4, 5+; 7, 8 return) | | | | | |
| Operating Temperature | -30 to 75° C | | | | | |
| Operating Humidity | 5 to 95% Condensing | | | | | |
| Shock & Vibration | ETSI300-019-1.4 | | | | | |

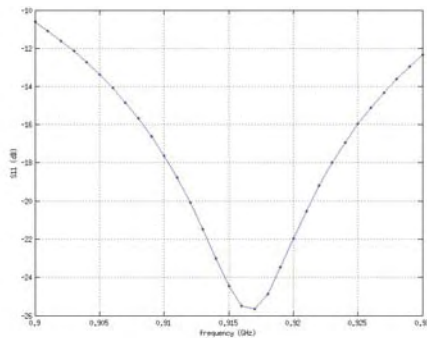
| Operating Frequency Summary (MHz) | | | | | |
|-----------------------------------|-------------|-----------|-----------|-------------|---------|
| Model | NSM5/locoM5 | NSM365 | NSM3 | NSM2/locoM2 | locoM9 |
| Worldwide | 5170 - 5875 | 3650-3675 | 3400-3700 | 2412-2462 | 902-928 |
| USA | 5725 - 5850 | | | | |
| USA DFS | 5250 - 5850 | - | - | - | - |

NanoStation locoM9 Specifications

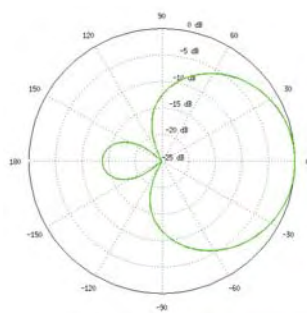
| Output Power: 28 dBm | | | | | | | |
|---------------------------------|-----------|---------|-----------|---------------------------------|-----------|-------------|-----------|
| 900 MHz TX POWER SPECIFICATIONS | | | | 900 MHz RX POWER SPECIFICATIONS | | | |
| airMAX | MCS Index | Avg. TX | Tolerance | airMAX | MCS Index | Sensitivity | Tolerance |
| | MCS0 | 28 dBm | ± 2 dB | | MCS0 | -96 dBm | ± 2 dB |
| | MCS1 | 28 dBm | ± 2 dB | | MCS1 | -95 dBm | ± 2 dB |
| | MCS2 | 28 dBm | ± 2 dB | | MCS2 | -92 dBm | ± 2 dB |
| | MCS3 | 28 dBm | ± 2 dB | | MCS3 | -90 dBm | ± 2 dB |
| | MCS4 | 28 dBm | ± 2 dB | | MCS4 | -86 dBm | ± 2 dB |
| | MCS5 | 24 dBm | ± 2 dB | | MCS5 | -83 dBm | ± 2 dB |
| | MCS6 | 22 dBm | ± 2 dB | | MCS6 | -77 dBm | ± 2 dB |
| | MCS7 | 21 dBm | ± 2 dB | | MCS7 | -74 dBm | ± 2 dB |
| | MCS8 | 28 dBm | ± 2 dB | | MCS8 | -95 dBm | ± 2 dB |
| | MCS9 | 28 dBm | ± 2 dB | | MCS9 | -93 dBm | ± 2 dB |
| | MCS10 | 28 dBm | ± 2 dB | | MCS10 | -90 dBm | ± 2 dB |
| | MCS11 | 28 dBm | ± 2 dB | | MCS11 | -87 dBm | ± 2 dB |
| | MCS12 | 28 dBm | ± 2 dB | | MCS12 | -84 dBm | ± 2 dB |
| | MCS13 | 24 dBm | ± 2 dB | | MCS13 | -79 dBm | ± 2 dB |
| MCS14 | 22 dBm | ± 2 dB | MCS14 | -78 dBm | ± 2 dB | | |
| MCS15 | 21 dBm | ± 2 dB | MCS15 | -75 dBm | ± 2 dB | | |

| Antenna Information | |
|---------------------|---------------------------------------------|
| Gain | 7.5 dBi |
| Cross-pol Isolation | 28 dB Minimum |
| Max. VSWR | 1.3:1 |
| Beamwidth | 60° (H-pol) / 60° (V-pol) / 60° (Elevation) |

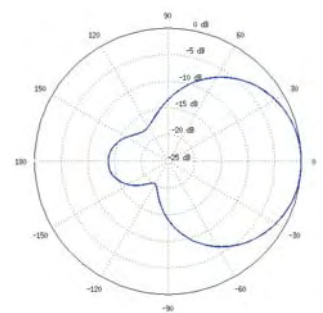
Return Loss



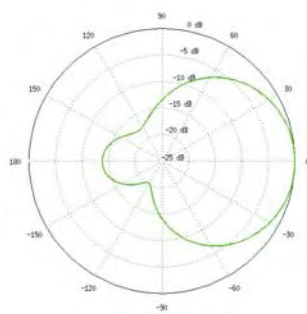
Vertical Azimuth



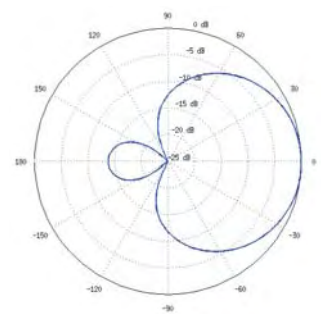
Vertical Elevation



Horizontal Azimuth



Horizontal Elevation

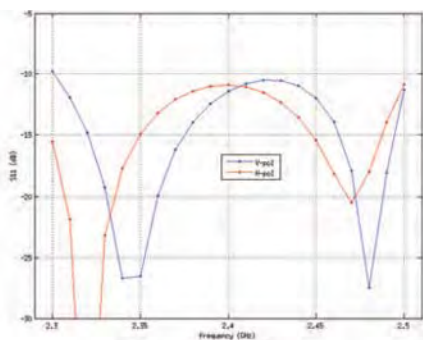


NanoStationLocoM2 Specifications

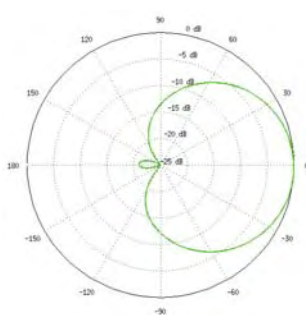
| Output Power: 23 dBm | | | | | | | |
|---------------------------------|---------------|---------|-----------|---------------------------------|---------------|-------------|-----------|
| 2.4 GHz TX POWER SPECIFICATIONS | | | | 2.4 GHz RX POWER SPECIFICATIONS | | | |
| | Data Rate/MCS | Avg. TX | Tolerance | | Data Rate/MCS | Sensitivity | Tolerance |
| 11b/g | 1-24 Mbps | 23 dBm | ± 2 dB | 11b/g | 1-24 Mbps | -83 dBm | ± 2 dB |
| | 36 Mbps | 21 dBm | ± 2 dB | | 36 Mbps | -80 dBm | ± 2 dB |
| | 48 Mbps | 19 dBm | ± 2 dB | | 48 Mbps | -77 dBm | ± 2 dB |
| | 54 Mbps | 18 dBm | ± 2 dB | | 54 Mbps | -75 dBm | ± 2 dB |
| airMAX | MCS0 | 23 dBm | ± 2 dB | airMAX | MCS0 | -96 dBm | ± 2 dB |
| | MCS1 | 23 dBm | ± 2 dB | | MCS1 | -95 dBm | ± 2 dB |
| | MCS2 | 23 dBm | ± 2 dB | | MCS2 | -92 dBm | ± 2 dB |
| | MCS3 | 23 dBm | ± 2 dB | | MCS3 | -90 dBm | ± 2 dB |
| | MCS4 | 22 dBm | ± 2 dB | | MCS4 | -86 dBm | ± 2 dB |
| | MCS5 | 20 dBm | ± 2 dB | | MCS5 | -83 dBm | ± 2 dB |
| | MCS6 | 18 dBm | ± 2 dB | | MCS6 | -77 dBm | ± 2 dB |
| | MCS7 | 17 dBm | ± 2 dB | | MCS7 | -74 dBm | ± 2 dB |
| | MCS8 | 23 dBm | ± 2 dB | | MCS8 | -95 dBm | ± 2 dB |
| | MCS9 | 23 dBm | ± 2 dB | | MCS9 | -93 dBm | ± 2 dB |
| | MCS10 | 23 dBm | ± 2 dB | | MCS10 | -90 dBm | ± 2 dB |
| | MCS11 | 23 dBm | ± 2 dB | | MCS11 | -87 dBm | ± 2 dB |
| | MCS12 | 22 dBm | ± 2 dB | | MCS12 | -84 dBm | ± 2 dB |
| | MCS13 | 20 dBm | ± 2 dB | | MCS13 | -79 dBm | ± 2 dB |
| | MCS14 | 18 dBm | ± 2 dB | | MCS14 | -78 dBm | ± 2 dB |
| MCS15 | 17 dBm | ± 2 dB | MCS15 | -75 dBm | ± 2 dB | | |

| Antenna Information | |
|---------------------|---------------------------------------------|
| Gain | 8.5 dBi |
| Cross-pol Isolation | 20 dB Minimum |
| Max. VSWR | 1.4:1 |
| Beamwidth | 60° (H-pol) / 60° (V-pol) / 60° (Elevation) |

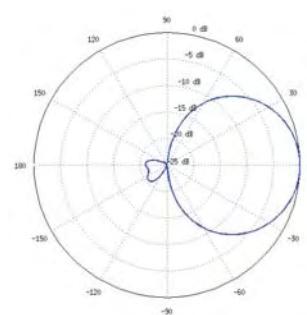
Return Loss



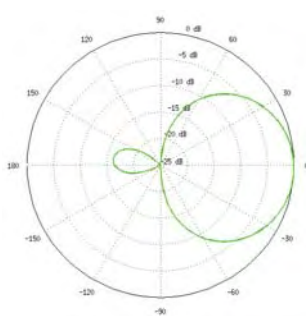
Vertical Azimuth



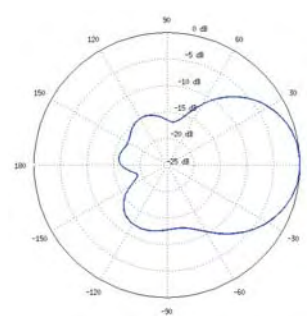
Vertical Elevation



Horizontal Azimuth



Horizontal Elevation

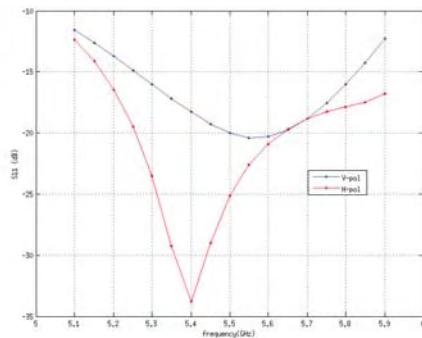


NanoStation loco M5 Specifications

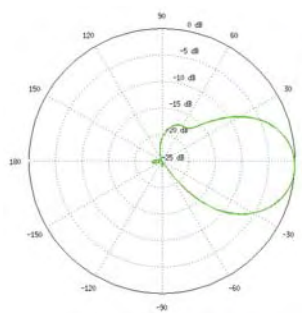
| Output Power: 23 dBm | | | | | | | |
|-------------------------------|---------------|---------|-----------|-------------------------------|---------------|-------------|-----------|
| 5 GHz TX POWER SPECIFICATIONS | | | | 5 GHz RX POWER SPECIFICATIONS | | | |
| | Data Rate/MCS | Avg. TX | Tolerance | | Data Rate/MCS | Sensitivity | Tolerance |
| 11b/g | 6-24 Mbps | 23 dBm | ± 2 dB | 11b/g | 6-24 Mbps | -83 dBm | ± 2 dB |
| | 36 Mbps | 21 dBm | ± 2 dB | | 36 Mbps | -80 dBm | ± 2 dB |
| | 48 Mbps | 19 dBm | ± 2 dB | | 48 Mbps | -77 dBm | ± 2 dB |
| | 54 Mbps | 18 dBm | ± 2 dB | | 54 Mbps | -75 dBm | ± 2 dB |
| airMAX | MCS0 | 23 dBm | ± 2 dB | airMAX | MCS0 | -96 dBm | ± 2 dB |
| | MCS1 | 23 dBm | ± 2 dB | | MCS1 | -95 dBm | ± 2 dB |
| | MCS2 | 23 dBm | ± 2 dB | | MCS2 | -92 dBm | ± 2 dB |
| | MCS3 | 23 dBm | ± 2 dB | | MCS3 | -90 dBm | ± 2 dB |
| | MCS4 | 22 dBm | ± 2 dB | | MCS4 | -86 dBm | ± 2 dB |
| | MCS5 | 20 dBm | ± 2 dB | | MCS5 | -83 dBm | ± 2 dB |
| | MCS6 | 18 dBm | ± 2 dB | | MCS6 | -77 dBm | ± 2 dB |
| | MCS7 | 17 dBm | ± 2 dB | | MCS7 | -74 dBm | ± 2 dB |
| | MCS8 | 23 dBm | ± 2 dB | | MCS8 | -95 dBm | ± 2 dB |
| | MCS9 | 23 dBm | ± 2 dB | | MCS9 | -93 dBm | ± 2 dB |
| | MCS10 | 23 dBm | ± 2 dB | | MCS10 | -90 dBm | ± 2 dB |
| | MCS11 | 23 dBm | ± 2 dB | | MCS11 | -87 dBm | ± 2 dB |
| | MCS12 | 22 dBm | ± 2 dB | | MCS12 | -84 dBm | ± 2 dB |
| | MCS13 | 20 dBm | ± 2 dB | | MCS13 | -79 dBm | ± 2 dB |
| | MCS14 | 18 dBm | ± 2 dB | | MCS14 | -78 dBm | ± 2 dB |
| MCS15 | 17 dBm | ± 2 dB | MCS15 | -75 dBm | ± 2 dB | | |

| Antenna Information | |
|---------------------|---------------------------------------------|
| Gain | 13 dBi |
| Cross-pol Isolation | 20 dB Minimum |
| Max. VSWR | 1.4:1 |
| Beamwidth | 45° (H-pol) / 45° (V-pol) / 45° (Elevation) |

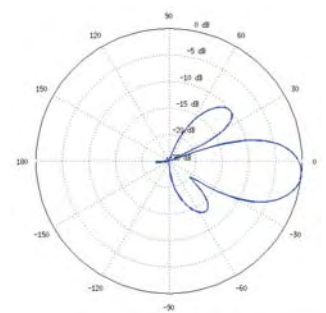
Return Loss



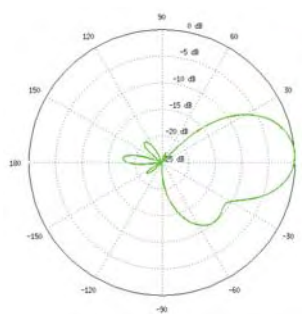
Vertical Azimuth



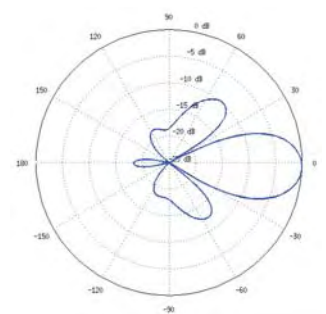
Vertical Elevation



Horizontal Azimuth



Horizontal Elevation

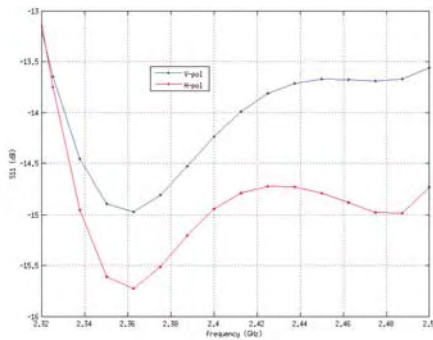


NanoStationM2 Specifications

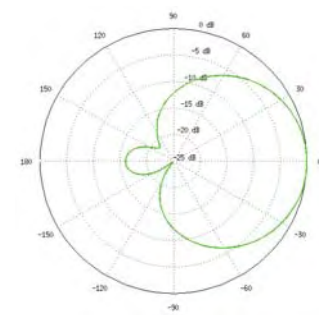
| Output Power: 28 dBm | | | | | | | |
|---------------------------------|---------------|---------|-----------|---------------------------------|---------------|-------------|-----------|
| 2.4 GHz TX POWER SPECIFICATIONS | | | | 2.4 GHz RX POWER SPECIFICATIONS | | | |
| | Data Rate/MCS | Avg. TX | Tolerance | | Data Rate/MCS | Sensitivity | Tolerance |
| 11b/g | 1-24 Mbps | 28 dBm | ± 2 dB | 11b/g | 1-24 Mbps | -83 dBm | ± 2 dB |
| | 36 Mbps | 26 dBm | ± 2 dB | | 36 Mbps | -80 dBm | ± 2 dB |
| | 48 Mbps | 25 dBm | ± 2 dB | | 48 Mbps | -77 dBm | ± 2 dB |
| | 54 Mbps | 24 dBm | ± 2 dB | | 54 Mbps | -75 dBm | ± 2 dB |
| airMAX | MCS0 | 28 dBm | ± 2 dB | airMAX | MCS0 | -96 dBm | ± 2 dB |
| | MCS1 | 28 dBm | ± 2 dB | | MCS1 | -95 dBm | ± 2 dB |
| | MCS2 | 28 dBm | ± 2 dB | | MCS2 | -92 dBm | ± 2 dB |
| | MCS3 | 28 dBm | ± 2 dB | | MCS3 | -90 dBm | ± 2 dB |
| | MCS4 | 27 dBm | ± 2 dB | | MCS4 | -86 dBm | ± 2 dB |
| | MCS5 | 25 dBm | ± 2 dB | | MCS5 | -83 dBm | ± 2 dB |
| | MCS6 | 23 dBm | ± 2 dB | | MCS6 | -77 dBm | ± 2 dB |
| | MCS7 | 22 dBm | ± 2 dB | | MCS7 | -74 dBm | ± 2 dB |
| | MCS8 | 28 dBm | ± 2 dB | | MCS8 | -95 dBm | ± 2 dB |
| | MCS9 | 28 dBm | ± 2 dB | | MCS9 | -93 dBm | ± 2 dB |
| | MCS10 | 28 dBm | ± 2 dB | | MCS10 | -90 dBm | ± 2 dB |
| | MCS11 | 28 dBm | ± 2 dB | | MCS11 | -87 dBm | ± 2 dB |
| | MCS12 | 27 dBm | ± 2 dB | | MCS12 | -84 dBm | ± 2 dB |
| | MCS13 | 25 dBm | ± 2 dB | | MCS13 | -79 dBm | ± 2 dB |
| | MCS14 | 23 dBm | ± 2 dB | | MCS14 | -78 dBm | ± 2 dB |
| MCS15 | 22 dBm | ± 2 dB | MCS15 | -75 dBm | ± 2 dB | | |

| Antenna Information | |
|---------------------|---------------------------------------------|
| Gain | 10.4-11.2 dBi |
| Cross-pol Isolation | 23 dB Minimum |
| Max. VSWR | 1.6:1 |
| Beamwidth | 55° (H-pol) / 53° (V-pol) / 27° (Elevation) |

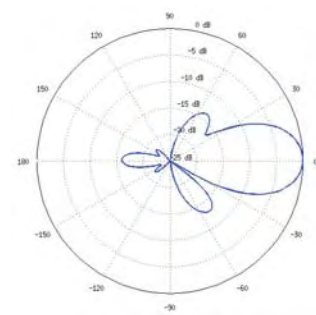
Return Loss



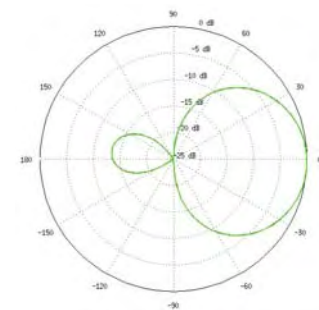
Vertical Azimuth



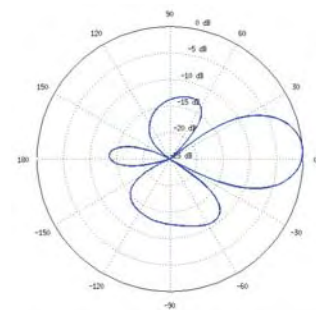
Vertical Elevation



Horizontal Azimuth



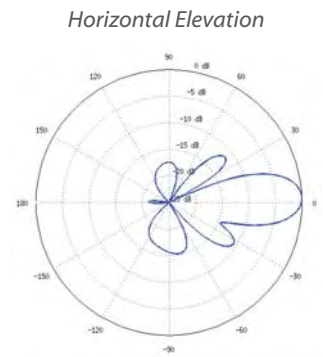
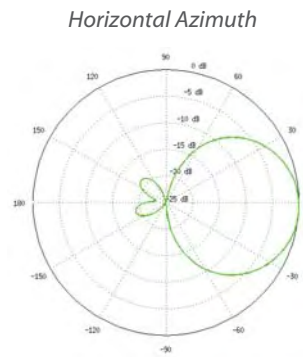
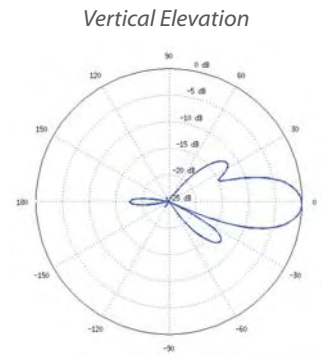
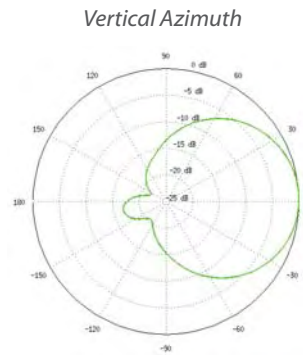
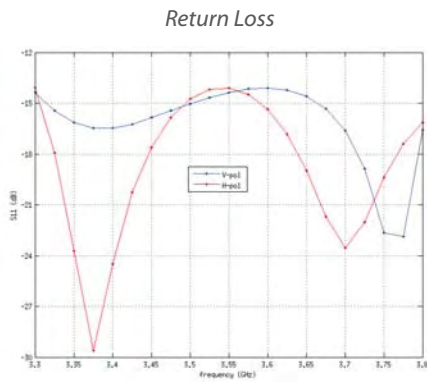
Horizontal Elevation



NanoStationM3/M365 Specifications

| Output Power: 25 dBm | | | | | | | |
|-------------------------|-----------|---------|-----------|-------------------------|-----------|-------------|-----------|
| TX POWER SPECIFICATIONS | | | | RX POWER SPECIFICATIONS | | | |
| airMAX | MCS Index | Avg. TX | Tolerance | airMAX | MCS Index | Sensitivity | Tolerance |
| | MCS0 | 25 dBm | ± 2 dB | | MCS0 | -94 dBm | ± 2 dB |
| | MCS1 | 25 dBm | ± 2 dB | | MCS1 | -93dBm | ± 2 dB |
| | MCS2 | 25 dBm | ± 2 dB | | MCS2 | -90 dBm | ± 2 dB |
| | MCS3 | 25 dBm | ± 2 dB | | MCS3 | -89 dBm | ± 2 dB |
| | MCS4 | 24 dBm | ± 2 dB | | MCS4 | -86 dBm | ± 2 dB |
| | MCS5 | 23 dBm | ± 2 dB | | MCS5 | -83 dBm | ± 2 dB |
| | MCS6 | 22 dBm | ± 2 dB | | MCS6 | -77 dBm | ± 2 dB |
| | MCS7 | 20 dBm | ± 2 dB | | MCS7 | -74 dBm | ± 2 dB |
| | MCS8 | 25 dBm | ± 2 dB | | MCS8 | -93 dBm | ± 2 dB |
| | MCS9 | 25 dBm | ± 2 dB | | MCS9 | -91 dBm | ± 2 dB |
| | MCS10 | 25 dBm | ± 2 dB | | MCS10 | -89 dBm | ± 2 dB |
| | MCS11 | 25 dBm | ± 2 dB | | MCS11 | -87 dBm | ± 2 dB |
| | MCS12 | 24 dBm | ± 2 dB | | MCS12 | -84 dBm | ± 2 dB |
| | MCS13 | 23 dBm | ± 2 dB | | MCS13 | -79 dBm | ± 2 dB |
| | MCS14 | 22 dBm | ± 2 dB | | MCS14 | -78 dBm | ± 2 dB |
| MCS15 | 20 dBm | ± 2 dB | MCS15 | -75 dBm | ± 2 dB | | |

| Antenna Information | |
|---------------------|---------------------------------------------|
| Gain | 12.2 - 13.7 dBi |
| Cross-pol Isolation | 28 dB Minimum |
| Max. VSWR | 1.4:1 |
| Beamwidth | 60° (H-pol) / 60° (V-pol) / 20° (Elevation) |

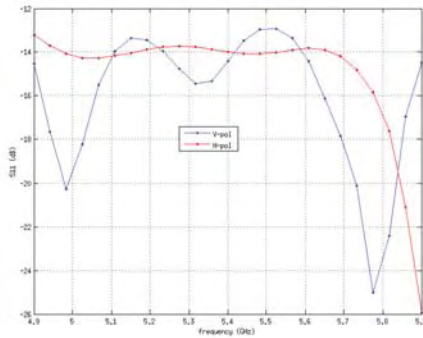


NanoStationM5 Specifications

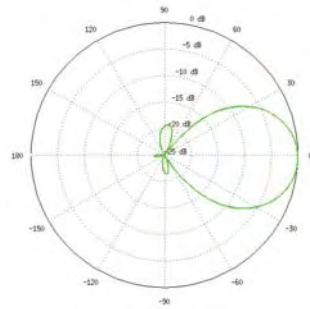
| Output Power: 27 dBm | | | | | | | |
|-------------------------------|---------------|---------|-----------|-------------------------------|---------------|-------------|-----------|
| 5 GHz TX POWER SPECIFICATIONS | | | | 5 GHz RX POWER SPECIFICATIONS | | | |
| | Data Rate/MCS | Avg. TX | Tolerance | | Data Rate/MCS | Sensitivity | Tolerance |
| 11a | 6-24 Mbps | 27 dBm | ± 2 dB | 11a | 6-24 Mbps | -94 dBm | ± 2 dB |
| | 36 Mbps | 25 dBm | ± 2 dB | | 36 Mbps | -80 dBm | ± 2 dB |
| | 48 Mbps | 23 dBm | ± 2 dB | | 48 Mbps | -77 dBm | ± 2 dB |
| | 54 Mbps | 22 dBm | ± 2 dB | | 54 Mbps | -75 dBm | ± 2 dB |
| 11n/airMAX | MCS0 | 27 dBm | ± 2 dB | 11n/airMAX | MCS0 | -96 dBm | ± 2 dB |
| | MCS1 | 27 dBm | ± 2 dB | | MCS1 | -95 dBm | ± 2 dB |
| | MCS2 | 27 dBm | ± 2 dB | | MCS2 | -92 dBm | ± 2 dB |
| | MCS3 | 27 dBm | ± 2 dB | | MCS3 | -90 dBm | ± 2 dB |
| | MCS4 | 26 dBm | ± 2 dB | | MCS4 | -86 dBm | ± 2 dB |
| | MCS5 | 24 dBm | ± 2 dB | | MCS5 | -83 dBm | ± 2 dB |
| | MCS6 | 22 dBm | ± 2 dB | | MCS6 | -77 dBm | ± 2 dB |
| | MCS7 | 21 dBm | ± 2 dB | | MCS7 | -74 dBm | ± 2 dB |
| | MCS8 | 27 dBm | ± 2 dB | | MCS8 | -95 dBm | ± 2 dB |
| | MCS9 | 27 dBm | ± 2 dB | | MCS9 | -93 dBm | ± 2 dB |
| | MCS10 | 27 dBm | ± 2 dB | | MCS10 | -90 dBm | ± 2 dB |
| | MCS11 | 27 dBm | ± 2 dB | | MCS11 | -87 dBm | ± 2 dB |
| | MCS12 | 26 dBm | ± 2 dB | | MCS12 | -84 dBm | ± 2 dB |
| | MCS13 | 24 dBm | ± 2 dB | | MCS13 | -79 dBm | ± 2 dB |
| | MCS14 | 22 dBm | ± 2 dB | | MCS14 | -78 dBm | ± 2 dB |
| MCS15 | 21 dBm | ± 2 dB | MCS15 | -75 dBm | ± 2 dB | | |

| Antenna Information | |
|---------------------|---------------------------------------------|
| Gain | 14.6 - 16.1 dBi |
| Cross-pol Isolation | 22 dB Minimum |
| Max. VSWR | 1.6:1 |
| Beamwidth | 43° (H-pol) / 41° (V-pol) / 15° (Elevation) |

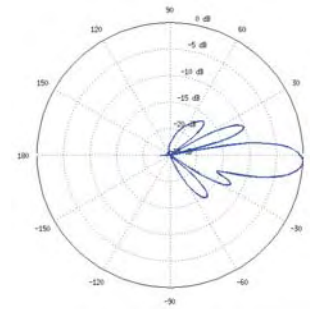
Return Loss



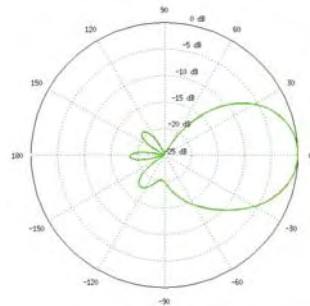
Vertical Azimuth



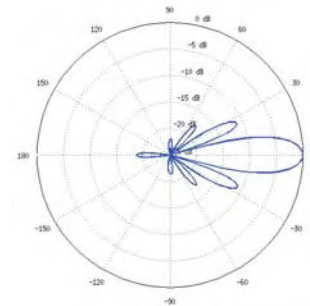
Vertical Elevation



Horizontal Azimuth



Horizontal Elevation



TOUGH Cable™

OUTDOOR CARRIER CLASS SHIELDED

Protect your networks from the most brutal environments with Ubiquiti Networks' industrial-grade, shielded Ethernet cable, TOUGH Cable.

Increase Performance

Dramatically improve your Ethernet link states, speeds, and overall performance with Ubiquiti TOUGH Cables.

Extreme Weatherproof

Designed for outdoor use, TOUGH Cables have been built to perform even in the harshest weather and environments.

ESD Damage Protection

Protect your networks from devastating electrostatic discharge (ESD) attacks.

Extended Cable Support

TOUGH Cables have been developed to increase power handling performance for extended cable run lengths.

Bulletproof your networks

TOUGH Cable is currently available in two versions: PRO Shielding Protection and CARRIER Shielding Protection.

TOUGH Cable PRO is a Category 5e, outdoor, carrier-class shielded cable with an integrated ESD drain wire.

TOUGH Cable CARRIER is a Category 5e, outdoor, carrier-class shielded cable that features an integrated ESD drain wire, anti-crosstalk divider, and secondary shielding. It is rated to provide optimal performance on Gigabit Ethernet networks.

Additional Information:

- 24 AWG copper conductor pairs
- 26 AWG integrated ESD drain wire to prevent ESD attacks and damage
- PE outdoor-rated, weatherproof jacket
- Multi-layered shielding
- Available in lengths of 1000 ft (304.8 m)

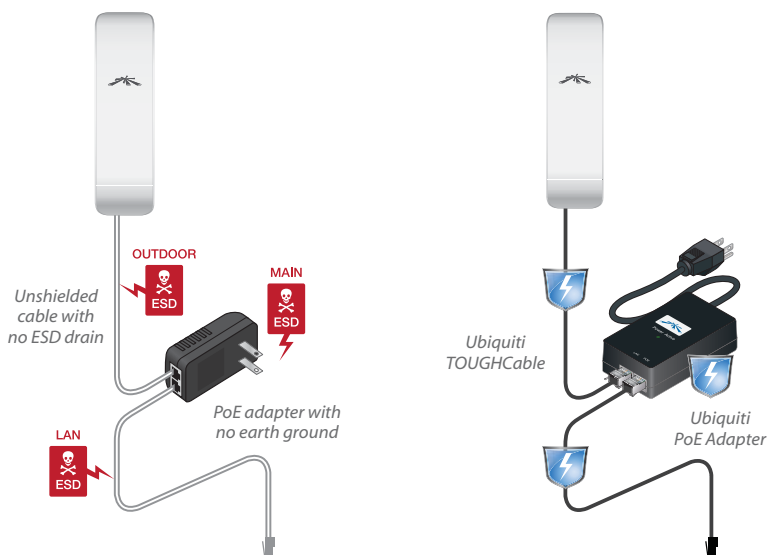


TOUGH Cable Connectors

Specifically designed for use with Ubiquiti TOUGH Cables and available in 100-pc. bags, TOUGH Cable Connectors protect against ESD attacks and Ethernet hardware damage, while allowing rapid field deployment without soldering.

ESD attacks are the leading cause for device failures. The diagram below illustrates the areas vulnerable to ESD attacks in a network.

By using a grounded Ubiquiti Power over Ethernet (PoE) Adapter along with Ubiquiti TOUGH Cable and TOUGH Cable Connectors, you can effectively protect against ESD attacks.



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All specifications in this document are subject to change without notice.