

Questo manuale d'istruzione è fornito da trovaprezzi.it. Scopri tutte le offerte per Ubiquiti Networks NanoStation 5AC Loco 5 pz o cerca il tuo prodotto tra le migliori offerte di Altri dispositivi di rete



NanoStation® AC NanoStation® AC 1000

5 GHz airMAX[®] AC Radio Models: NS-5AC, Loco5AC

Ubiquiti® airMAX AC Processor

Up to 450+ Mbps Real TCP/IP Throughput

Dedicated Wi-Fi Radio for Management



Overview

Ubiquiti Networks set the bar for the world's first low-cost and efficient broadband Customer Premises Equipment (CPE) with the NanoStation[®] M.

The NanoStation AC and NanoStation AC loco take the same concept to the future with sleek form factors, along with integrated airMAX (MIMO TDMA protocol) technology and dedicated Wi-Fi management.

The radio and antenna are combined to create a more efficient and compact CPE. The NanoStation AC and NanoStation AC loco get maximum gain out of the smallest footprint.

The low cost, high performance, and small form factor of the NanoStation AC and NanoStation AC loco make them extremely versatile and economical to deploy.

Software air0S[°]8

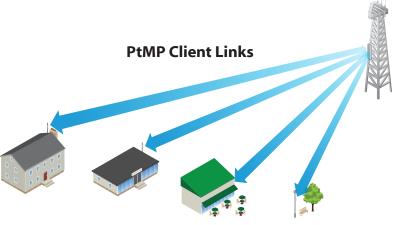
airOS[®] 8 is the revolutionary operating system for Ubiquiti airMAX ac products.

Powerful Wireless Features

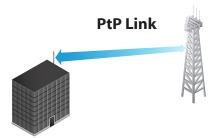
- Access Point PtMP airMAX Mixed Mode
- airMAX ac Protocol Support
- Long-Range Point-to-Point (PtP) Link Mode
- Selectable Channel Width
 - PtP: 10/20/30/40/50/60/80 MHz
- PtMP: 10/20/30/40 MHz
- Automatic Channel Selection
- Transmit Power Control: Automatic/Manual
- Automatic Distance Selection (ACK Timing)
- Strongest WPA2 Security

Usability Enhancements

- airMagic[®] Channel Selection Tool
- Dynamic Configuration Changes
- Instant Input Validation
- HTML5 Technology
- Optimization for Mobile Devices
- Detailed Device Statistics
- Comprehensive Array of Diagnostic Tools, including RF Diagnostics and airView[®] Spectrum Analyzer



NanoStation AC devices used as powerful clients in an airMAX PtMP (Point-to-Multi-Point) network setup.



Use two NanoStation AC radios to create a PtP link.

| ()-1) ()-1) NanoStation SAC loco 784 | R SB89 HIGUGINUT 220,32 Mts | | 3.400 | 0.1 ml | 80.3 % | 139.45 THEOLONPUT CASHCITY 230.40 Maps | (A) REMOTE PowerBeam SAC Ge 76:84:20:32500:30 TX POWER 24 dtm |
|--|---|--|--|---|--|--|---|
| 5.200 SIGNAL -36 (-38/-40) dB | | | 3.400 | | | | |
| 0 | | | | | 5,000 | | 5,800 |
| RX DATA RATE 6X (64QA | m | | NOISE FLOOR -87 dBm | signal -41 (-46/- | 42) dBm | | NOISE FLOOR -90 dBr |
| | VM 2x2) | | EXPECTED RATE 8X | TX DATA RATE 6X | (64QAM 2x2) | | EXPECTED RATE & |
| 16 8 85 | ATC COVERY PHILOSOPHIA Capacity TX 230 Magn 6 Capacity TX 200 Magn 6 Capacity TX 10 10 10 10 10 10 10 10 10 10 | SIGNAL, NOISE & INTE ADDA DA DA DA Noise A NOISE & INTE ADDA DA DA DA Noise A NOISE & INTE ADDA DA DA DA Noise A NOISE & INTE ADDA DA DA Noise A NOISE & INTE ADDA D | 400 200 Mbps | 10 0 0 230Mbps TX RATE HISTORY 15 REMOTE DEVICE | 220 Mbps 13 | NT BOMAL NORE & IN SCHALL NOR | 400 200 Mbps ushput TX = Latency |
| WIRELESS MODE Sta NETWORK MODE Bri DATE (NOT SYNCED) 200 UPTIME 000 SECURITY NO | idge 17-09-01 16:08:07 :19:13 | LAN SPEED CINR CINR CINR CINR CINR CINR CINR CINR | 48.3.2 (WA) 2000 Mtps-Full 28 dB 21 miles (0.2 km) 2.98 G / 871 M 30 dB 20 m | DEVICE MODEL WIRELESS MODE NETWORK MODE DATE UPTIME CONNECTION TIME NOISE FLOOR | PowerBeam SAC Gen2 AP PEMP airMAX Mixed Bridge 2017-08-29 11:51:22 00:12:28 00:12:07 -90 dBm | VERSION LASTIP CINR DISTARCE TX/IRX BYTES CARLE SNR CARLE LENGTH | v8.4.0-master devel-cs.35259 [169:254.13.61 • 25 d8 0.1 miles (0.2 km) 860 M / 1.95 G • < 20 m |
| MEMORY | 65 s | CPU | 27 % | MEMORY | 75 _% | CPU | 10 × |

NanoStation & NanoStation & loco Datasheer

Advanced RF Analytics

airMAX ac devices feature a multi-radio architecture to power a revolutionary RF analytics engine.

An independent processor on the PCBA powers a second, dedicated radio, which persistently analyzes the full 5 GHz spectrum and every received symbol to provide you with the most advanced RF analytics in the industry.

Real-Time Reporting

airOS 8 displays the following RF information:

- Persistent RF Error Vector Magnitude (EVM) constellation diagrams
- Signal, Noise, and Interference (SNI) diagrams
- Carrier to Interference-plus-Noise Ratio (CINR) histograms

Spectral Analysis

airView allows you to identify noise signatures and plan your networks to minimize noise interference. airView performs the following functions:

- Constantly monitors environmental noise
- Collects energy data points in real-time spectral views
- Helps optimize channel selection, network design, and wireless performance

airView runs in the background without disabling the wireless link, so there is no disruption to the network.

In airView, there are three spectral views, each of which represents different data: waveform, waterfall, and ambient noise level.

airView provides powerful spectrum analyzer functionality, eliminating the need to rent or purchase additional equipment for conducting site surveys.

UNMS App

The NanoStation AC and NanoStation AC loco both integrate a separate Wi-Fi radio for fast and easy setup using your mobile device.

Accessing airOS via Wi-Fi

The UNMS[™] app provides instant accessibility to the airOS configuration interface and can be downloaded from the App Store[®] (iOS) or Google Play[™] (Android). UNMS allows you to set up, configure, and manage your device, and offers various configuration options once you're connected or logged in.

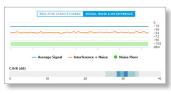
Multi-Radio Architecture



Constellation Diagrams

| OCAL | | NanoStation 5AC | | | RD | мот | E | | | N | | stat | ioe | 5.4 | с | | | | | | |
|------|--------------------------|-----------------|------|-------|-------|---------|-----|-----|------|-----|-----|------|-----|-----|----|-----|-----|----|---|----|-------|
| INR | NR 34 d8 SWER -41 d9m | | NR | | 34 dB | | | | CP | iR. | | | | 37 | dū | | | | | | |
| ow | | | | POWER | | -59 dBm | | | | | | | | | | | | | | | |
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SNI Diagram and CINR Histogram



Dedicated Spectral Analysis



UNMS Configuration Screen



Technology airMAX®

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, so airMAX technology provides performance improvements in latency, noise immunity, scalability, and throughput compared to other outdoor systems in its class.

Intelligent Qos Priority assigned to voice/video for seamless streaming.

Scalability High capacity and scalability.

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

Superior Performance

The next-generation airMAX ac technology boosts the advantages of our proprietary TDMA protocol.

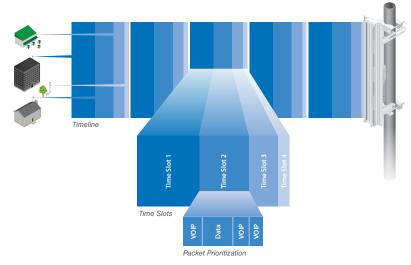
Ubiquiti's airMAX engine with custom IC dramatically improves TDMA latency and network scalability. The custom silicon provides hardware acceleration capabilities to the airMAX scheduler, to support the high data rates and dense modulation used in airMAX ac technology.

Throughput Breakthrough

airMAX ac supports high data rates, which require dense modulation: 256QAM – a significant increase from 64QAM, which is used in airMAX.

With their use of proprietary airMAX ac technology, airMAX ac products supports up to 450+ Mbps real TCP/IP throughput – up to triple the throughput of standard airMAX products.

airMAX ac TDMA Technology

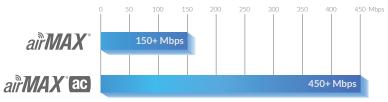


Up to 100 airMAX ac stations can be connected to an airMAX ac Sector; four airMAX ac stations are shown to illustrate the general concept.

airMAX Network Scalability



Superior Throughput Performance



NanoStation BanoStation Boloco Datasheet

Hardware Overview

The NanoStation AC and NanoStation AC loco feature airMAX technology and a dedicated Wi-Fi radio for management.

- Versatile Mounting Both models are suitable for indoor and outdoor installations
- **Improved Surge Protection** The NanoStation AC and NanoStation AC loco utilize the latest ESD Protection to help protect against power surges.
- Efficient Footprint The radio and antenna are combined into a single body that takes up minimal space.
- **Quick Installation** No fasteners are required for pole-mounting, and a single wall fastener (not included) is required for wall-mounting (NS-5AC only).



NS-5AC Powering a UVC-G3

Specifications

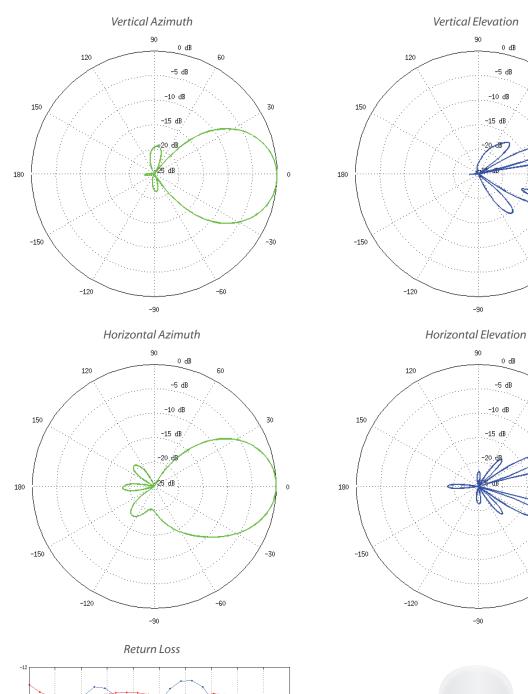
| Dimensions | NS-5AC |
|-----------------------------|--|
| With Mount Without Mount | 257 x 84 x 30 mm (10.12 x 3.31 x 1.18") 257 x 84 x 41 mm (10.12 x 3.31 x 1.61") |
| Weight | 233 g (8.22) oz |
| Power Supply | 24V, 0.5A Gigabit PoE Supply (Included) |
| Max. Power Consumption | 9W |
| Power Method | 802.3af Alternative A (Pairs 1, 2+; 3, 6 Return) 24V Passive PoE (Pairs 4, 5+; 7, 8 Return) |
| Gain | 16 dBi |
| Networking Interface | (2) 10/100/1000 Mbps Ethernet Ports |
| Channel Bandwidths | 10/20/30/40/50/60/80 MHz |
| Processor Specs | Atheros MIPS 74Kc, 560 MHz |
| Memory | 64 MB DDR2 |
| Cross-pol Isolation | 20 dB Minimum |
| Max. VSWR | 1.6:1 |
| Beamwidth | 45° (H-pol) / 45° (V-pol) / 45° (Elevation) |
| Polarization | Dual Linear |
| Enclosure | UV Resistant Polycarbonate |
| LEDs | (1) Power, Eth1, Eth2; (1) Signal Strength |
| Mounting | Pole-Mount (Kit Included) |
| Operating Temperature | -40 to 70° C (-40 to 158° F) |
| Operating Humidity | 5 to 95% Noncondensing |
| RoHS Compliance | Yes |
| ESD/EMP Protection | ±24kV Contact/Air |
| Shock & Vibration | ETSI300-019-1.4 |
| Certifications | CE, FCC, IC |

| Operating Frequency (MHz) | | | | | | | |
|---------------------------|-------------------------|------------------------------|------------------------------|-------------------------|--|--|--|
| Worldwide 5150 - 5875 | | | | | | | |
| USA | U-NII-1: 5150 - 5250 | U-NII-2A: 5250 - 5350 MHz | U-NII-2C: 5470 - 5725 MHz | U-NII-3: 5725 - 5850 | | | |

| | Management Radio (MHz) |
|-----------|------------------------|
| Worldwide | 2412 - 2472 |
| USA | 2412 - 2462 |

| | Output Power: 25 dBm | | | | | | | | | |
|------------|----------------------|----------------|-----------|-------------------------------|----------------|-------------|-----------|--|--|--|
| | 5 GHz TX Power | Specifications | | 5 GHz RX Power Specifications | | | | | | |
| Modulation | Data Rate | Avg. TX | Tolerance | Modulation | Data Rate | Sensitivity | Tolerance | | | |
| | 1x BPSK (1/2) | 25 dBm | ± 2 dB | | 1x BPSK (1/2) | -96 dBm | ± 2 dB | | | |
| | 2x QPSK (1/2) | 25 dBm | ± 2 dB | | 2x QPSK (1/2) | -95 dBm | ± 2 dB | | | |
| | 2x QPSK (¾) | 25 dBm | ± 2 dB | | 2x QPSK (¾) | -92 dBm | ± 2 dB | | | |
| ac | 4x 16QAM (1/2) | 25 dBm | ± 2 dB | airMAX ac | 4x 16QAM (1/2) | -90 dBm | ± 2 dB | | | |
| | 4x 16QAM (¾) | 25 dBm | ± 2 dB | | 4x 16QAM (¾) | -86 dBm | ± 2 dB | | | |
| airMAX | 6x 64QAM (⅔) | 25 dBm | ± 2 dB | | 6x 64QAM (⅔) | -83 dBm | ± 2 dB | | | |
| ai | 6x 64QAM (¾) | 24 dBm | ± 2 dB | ai | 6x 64QAM (¾) | -77 dBm | ± 2 dB | | | |
| | 6x 64QAM (%) | 23 dBm | ± 2 dB | | 6x 64QAM (%) | -74 dBm | ± 2 dB | | | |
| | 8x 256QAM (¾) | 21 dBm | ± 2 dB | | 8x 256QAM (¾) | -69 dBm | ± 2 dB | | | |
| | 8x 256QAM (%) | 21 dBm | ± 2 dB | | 8x 256QAM (%) | -65 dBm | ± 2 dB | | | |







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-60

60

-60

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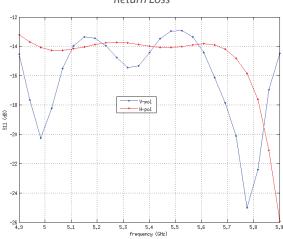
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Specifications

| | Loco5AC |
|------------------------|--|
| Dimensions | 179 x 77.5 x 59.1 mm (7.05 x 3.05 x 2.33") |
| Weight | 180 g (6.35 oz) |
| Power Supply | 24V, 0.3A Gigabit PoE Supply* |
| Max. Power Consumption | 7W |
| Power Method | Passive PoE 2-Pair (Pairs 4, 5+; 7, 8 Return) |
| Gain | 13 dBi |
| Networking Interface | 10/100/1000 Mbps Ethernet Port |
| Channel Bandwidths | 10/20/30/40/50/60/80 MHz |
| Processor Specs | Atheros MIPS 74Kc, 560 MHz |
| Memory | 64 MB DDR2 |
| Cross-pol Isolation | 20 dB Minimum |
| Max. VSWR | 1.8:1 |
| Beamwidth | 45° (H-pol) / 45° (V-pol) / 45° (Elevation) |
| Polarization | Dual Linear |
| Enclosure | Outdoor UV Stabilized Plastic |
| LEDs | (1) Power |
| Mounting | Pole-Mount (Kit Included) |
| Operating Temperature | -40 to 70° C (-40 to 158° F) |
| Operating Humidity | 5 to 95% Noncondensing |
| RoHS Compliance | Yes |
| ESD/EMP Protection | ±24kV Contact/Air |
| Shock & Vibration | ETSI300-019-1.4 |
| Certifications | CE, FCC, IC |
| | * Not included. Recommended PoE Adapter: POE-24-12W-G. |

| Operating Frequency (MHz) | | | | | | |
|---------------------------|-------------------------|------------------------------|------------------------------|-------------------------|--|--|
| Worldwide | | | | 5150 - 5875 | | |
| USA | U-NII-1: 5150 - 5250 | U-NII-2A: 5250 - 5350 MHz | U-NII-2C: 5470 - 5725 MHz | U-NII-3: 5725 - 5850 | | |

| | Management Radio (MHz) |
|-----------|------------------------|
| Worldwide | 2412 - 2472 |
| USA | 2412 - 2462 |

| Output Power: 25 dBm | | | | | | | | | |
|----------------------|----------------|----------------|-----------|-------------------------------|----------------|-------------|-------------|--|--|
| | 5 GHz TX Power | Specifications | | 5 GHz RX Power Specifications | | | | | |
| Modulation | Data Rate | Avg. TX | Tolerance | Modulation | Data Rate | Sensitivity | Tolerance | | |
| | 1x BPSK (1/2) | 25 dBm | ± 2 dB | | 1x BPSK (1/2) | -96 dBm | $\pm 2 dB$ | | |
| | 2x QPSK (1/2) | 25 dBm | ± 2 dB | | 2x QPSK (1/2) | -95 dBm | ±2dB | | |
| | 2x QPSK (¾) | 25 dBm | ± 2 dB | | 2x QPSK (¾) | -92 dBm | ±2dB | | |
| ac | 4x 16QAM (½) | 25 dBm | ± 2 dB | ac | 4x 16QAM (1/2) | -90 dBm | ±2dB | | |
| | 4x 16QAM (¾) | 25 dBm | ± 2 dB | | 4x 16QAM (¾) | -86 dBm | ± 2 dB | | |
| airMAX | 6x 64QAM (⅔) | 25 dBm | ± 2 dB | airMAX | 6x 64QAM (3) | -83 dBm | ± 2 dB | | |
| ai | 6x 64QAM (¾) | 24 dBm | ± 2 dB | a : | 6x 64QAM (¾) | -77 dBm | ±2dB | | |
| | 6x 64QAM (%) | 23 dBm | ± 2 dB | | 6x 64QAM (%) | -74 dBm | ±2dB | | |
| | 8x 256QAM (¾) | 21 dBm | ± 2 dB | | 8x 256QAM (¾) | -69 dBm | ± 2 dB | | |
| | 8x 256QAM (%) | 21 dBm | ± 2 dB | | 8x 256QAM (%) | -65 dBm | ± 2 dB | | |

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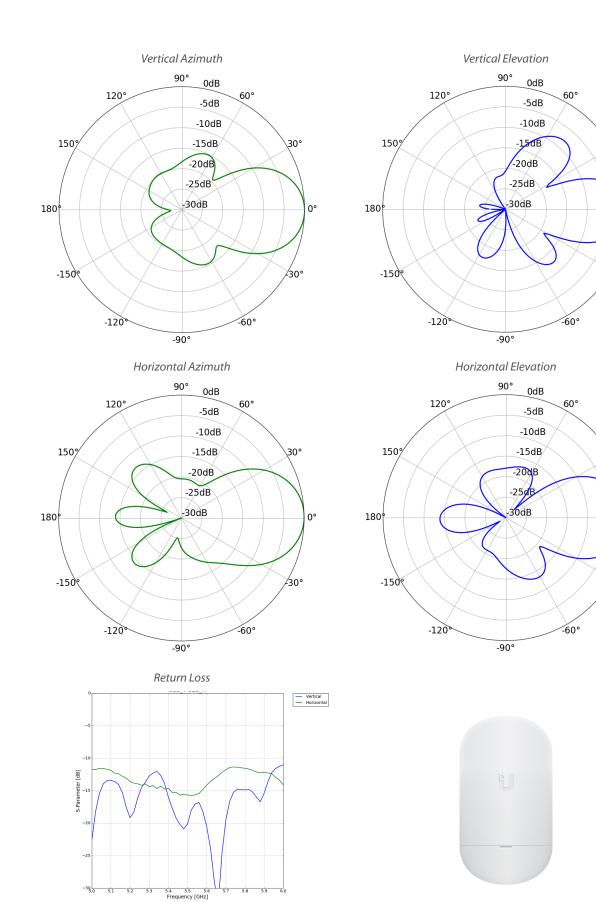
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