

## Warning!

Please read the user manual included in this work as it contains important information related with safety of installation and use of the device.

Only persons who read the user manual may use the device.

The user manual must be kept because it may be required in the future. The device is to be used exclusively for purposes specified in this user manual.

The device must be unpacked prior to starting-up. After removing the packaging make sure the device is in working order.

If the product has defects, it should not be used until it is repaired.

The product is intended for use at home and commercial use and may not be used for other than intended use.

The manufacturer is not liable for damages resulting from not adhering to the rules contained in the user manual, therefore, we recommend to follow the aforementioned safety rules for operation and maintenance of the device. In this way you will ensure yourself safety and avoid causing damage to the device.

The manufacturer and the supplier are not liable for losses or damages arising out of the product, including financial or intangible losses, loss of profits, income, data, pleasure from use of the product or other products related with it - indirect, incidental or consequential loss or damage. The above provisions apply whether the loss or damage concerns:

1. Deterioration of quality or the lack of operation of the products or products related with it due to damage as well as the lack of access to the product when it is undergoing repair, which results in stoppage the loss of user's time or a break in business activity;
2. Improper results of operation of the product or products related with it;
3. It applies to losses and damages according to any legal category, including negligence and other losses, termination of a contract, expressed or implied guarantee and strict liability (even if the manufacturer or the supplier was notified about the possibility of occurrence of such damages).

### Safety measures:

Particular attention at designing was directed to quality standards of the device where ensuring safety of operation is the most important factor.

The device must be secured against contact with caustic, staining and viscous fluids.

The device was designed in such a way that it restarts operation when power supply is restored after a break.

**Attention! We recommend using protections to further protect the device from possible overvoltages in installations. Surge protectors are effective protection against accidental pass to the device voltages higher than the rated. Damages caused by pass the voltages higher than specified in manual, are not under warranty.**

Turn off the device before transporting it.

Prior to connecting the device to a power source check whether the supplied voltage is consistent with rated voltage specified in the user manual.

### Proper product disposal:

A marking of a crossed out waste bin indicates that the product may not be disposed together with other household waste in the entire EU. To avoid possible damage to the natural environment of health due to uncontrolled waste disposal, therefore, it should be handed over for recycling, propagating in this way sustainable use of natural resources.

To return a worn-out product, use a collection and disposal system of this type of equipment or contact a seller from whom it was purchased. He will then be recycled in an environmentally-friendly way.



# User Manual

Code: NS-5ACL  
ACCESS POINT **NS-5ACL** UBIQUITI



The UBIQUITI NanoStation NS-5ACL is a device working in airMAX ac (MIMO TDMA) standard.

The radio and antenna with 13dBi gain are combined into a single compact body. The device is high efficient Customer Premises Equipment (CPE).

The airMAX ac products supports up to 450 Mbps real TCP/IP throughput - up to triple the throughput of standard airMAX products.

Frequency range:	5150 MHz ... 5875 MHz
Antenna type:	MIMO TDMA 13 dBi Integrated
Polarization:	vertical/horizontal
Standards:	<ul style="list-style-type: none"><li>• IEEE 802.11a</li><li>• IEEE 802.11n</li><li>• IEEE 802.11ac</li></ul>
VSWR:	max. 1.8 : 1
LAN ports:	1 x 10/100/1000 Mbps
Receiver sensitivity:	<ul style="list-style-type: none"><li>• -96 dBm <math>\pm</math> 2 dB @ 1 x BPSK (1/2)</li><li>• -95 dBm <math>\pm</math> 2 dB @ 2 x QPSK (1/2)</li><li>• -92 dBm <math>\pm</math> 2 dB @ 2 x QPSK (3/4)</li><li>• -90 dBm <math>\pm</math> 2 dB @ 4 x 16-QAM (1/2)</li><li>• -86 dBm <math>\pm</math> 2 dB @ 4 x 16-QAM (3/4)</li><li>• -83 dBm <math>\pm</math> 2 dB @ 6 x 64-QAM (2/3)</li><li>• -77 dBm <math>\pm</math> 2 dB @ 6 x 64-QAM (3/4)</li><li>• -74 dBm <math>\pm</math> 2 dB @ 6 x 64-QAM (5/6)</li><li>• -69 dBm <math>\pm</math> 2 dB @ 8 x 256-QAM (3/4)</li><li>• -65 dBm <math>\pm</math> 2 dB @ 8 x 256-QAM (5/6)</li></ul>
Operating system:	AirOS
Operation modes:	Access Point - Point to Point, Access Point - Point to Multi Point, Station - Point to Point, Station - Point to Multi Point



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Protections:	Overvoltage protection $\pm 24$ kV Contact/Air (ESD/EMP)
Transmitter power:	<ul style="list-style-type: none"><li>• 25 dBm <math>\pm 2</math> dB @ 1 x 8PSK (1/2)</li><li>• 25 dBm <math>\pm 2</math> dB @ 2 x Mbps QPSK (1/2)</li><li>• 25 dBm <math>\pm 2</math> dB @ 2 x QPSK (3/4)</li><li>• 25 dBm <math>\pm 2</math> dB @ 4 x 16-QAM (1/2)</li><li>• 25 dBm <math>\pm 2</math> dB @ 4 x 16-QAM (3/4)</li><li>• 25 dBm <math>\pm 2</math> dB @ 6 x 64-QAM (2/3)</li><li>• 24 dBm <math>\pm 2</math> dB @ 6 x 64-QAM (3/4)</li><li>• 23 dBm <math>\pm 2</math> dB @ 6 x 64-QAM (5/6)</li><li>• 21 dBm <math>\pm 2</math> dB @ 8 x 256-QAM (3/4)</li><li>• 21 dBm <math>\pm 2</math> dB @ 8 x 256-QAM (5/6)</li></ul>
Horizontal beam width (H):	45 °
Vertical beam width (V):	45 °
Memory:	64 MB DDR2
Processor:	Atheros MIPS 74KC, 560MHz
Power supply PoE:	✓
Power supply:	24 V / 0.5 A - Gigabit PoE (power adapter not included)
Power consumption:	7 W
Operation temp:	-40 °C ... 70 °C
Permissible relative humidity:	5 % ... 95 %
Main features:	<ul style="list-style-type: none"><li>• Management Radio 2.4GHz - Management and configuration of the device via Wi-Fi</li><li>• Throughput up to 450 Mbps</li><li>• Range up to 10+ km</li><li>• Channel bandwidths 10/20/30/40/50/60/80 MHz</li><li>• Extra radio module for device management</li><li>• The device is designed to work both inside and outside the building</li><li>• Very easy and quick installation without any tools</li><li>• It has a tight and UV-resistant housing</li></ul>
Weight:	0.177 kg
Dimensions:	179 x 78 x 59 mm
Manufacturer / Brand:	UBIQUITI
Guarantee:	2 years

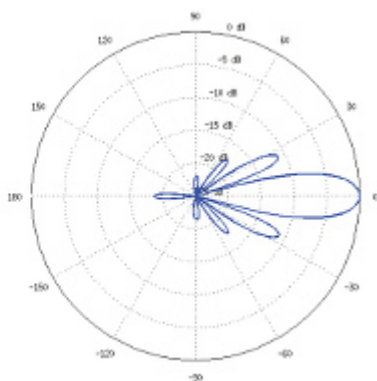
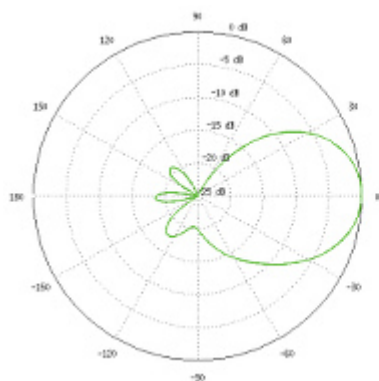
Bottom view (after remove the cover):



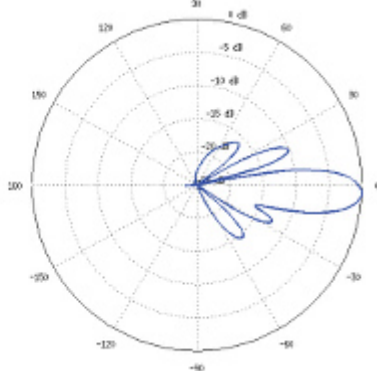
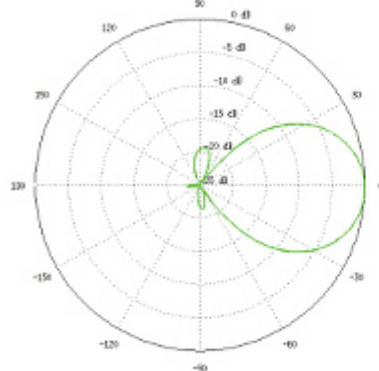
Mounting side view:



Polar pattern for horizontal polarization (respectively horizontal and vertical plane):



Polar pattern for vertical polarization (respectively horizontal and vertical plane):



In the kit:



## PACKAGE

Dimensions (L x W x H): 0x0x0 mm	Gross Weight: 0 kg
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