

Ubiquiti Networks NBE-M5-300 Specs

General Specifications

Processor Atheros MIPS 74Kc, 560 MHz

Memory 64 MB DDR2, 8 MB flash

Networking Interface 1 x 10/100 Ethernet port

Power

Power Supply 24 V, 0.5 A PoE adapter

Power Method Passive PoE (pairs 4, 5+, 7, 8 return)

Maximum Power Consumption 6 W

TX Power Specifications Output Power: 26 dBm

Modulation: 802.11a
Data Rate: Average TX: Tolerance
6 to 24 Mb/s: 26 dBm: ± 2 dB
36 Mb/s: 25 dBm: ± 2 dB
48 Mb/s: 24 dBm: ± 2 dB
54 Mb/s: 23 dBm: ± 2 dB

Modulation: 802.11n/airMAX
Data Rate: Average: TX Tolerance
MCS0: 26 dBm: ± 2 dB
MCS1: 25 dBm: ± 2 dB

MCS2: 25 dBm: ± 2 dB
MCS3: 25 dBm: ± 2 dB
MCS4: 24 dBm: ± 2 dB
MCS5: 23 dBm: ± 2 dB
MCS6: 23 dBm: ± 2 dB
MCS7: 23 dBm: ± 2 dB
MCS8: 26 dBm: ± 2 dB
MCS9: 25 dBm: ± 2 dB
MCS10: 25 dBm: ± 2 dB
MCS11: 25 dBm: ± 2 dB
MCS12: 24 dBm: ± 2 dB
MCS13: 23 dBm: ± 2 dB
MCS14: 23 dBm: ± 2 dB
MCS15: 23 dBm: ± 2 dB

RX Power Specifications

Output Power: 26 dBm

Modulation: 802.11a
Data Rate: Sensitivity: Tolerance
6 to 24 Mb/s: -94 dBm minimum: ± 2 dB
36 Mb/s: -80 dBm: ± 2 dB
48 Mb/s: -77 dBm: ± 2 dB
54 Mb/s: -75 dBm: ± 2 dB

Modulation: 802.11n/airMAX
Data Rate: Sensitivity: Tolerance
MCS0: -96 dBm: ± 2 dB
MCS1: -95 dBm: ± 2 dB
MCS2: -92 dBm: ± 2 dB
MCS3: -90 dBm: ± 2 dB
MCS4: -86 dBm: ± 2 dB
MCS5: -83 dBm: ± 2 dB
MCS6: -77 dBm: ± 2 dB
MCS7: -74 dBm: ± 2 dB
MCS8: -95 dBm: ± 2 dB
MCS9: -93 dBm: ± 2 dB
MCS10: -90 dBm: ± 2 dB
MCS11: -87 dBm: ± 2 dB
MCS12: -84 dBm: ± 2 dB
MCS13: -79 dBm: ± 2 dB
MCS14: -78 dBm: ± 2 dB
MCS15: -75 dBm: ± 2 dB

Antenna

Gain	22 dBi
------	--------

VSWR	1.5:1.0 (maximum)
------	-------------------

Built-In Mechanical Downtilt	20°
------------------------------	-----

Polarization	Dual linear
--------------	-------------

Operating Frequency	Worldwide: 5170 - 5875 MHz USA: 5725 - 5850 MHz
---------------------	--

Wind Loading	200.2 N at 200 km/hour (45 lbf at 125 mph)
--------------	--

Wind Survivability	200 km/hour (125 mph)
--------------------	-----------------------

LED Indicator Specifications

LEDs	1 x Power 1 x LAN 4 x WLAN
------	----------------------------------

Signal Strength LEDs	Software-adjustable to correspond to custom RSSI levels
----------------------	---

Channel Size Support

Channel Sizes	5/8/10/20/30/40 MHz
---------------	---------------------

Tests

Salt Fog Test	IEC 68-2-11 (ASTM B117) Equivalent: MIL-STD-810 G method 509.5
---------------	---

Vibration Test	IEC 68-2-6
----------------	------------

Temperature Shock Test	IEC 68-2-14
------------------------	-------------

UV Test	IEC 68-2-5 at 104°F (40°C) Equivalent: ETS 300 019-1-4
---------	---

Wind-Driven Rain Test	ETS 300 019-1-4 Equivalent: MIL-STD-810 G method 506.5
-----------------------	---

Environmental

Operating Temperature	-40 to +158°F (-40 to +70°C)
-----------------------	------------------------------

Operating Humidity	5 to 95% (non-condensing)
--------------------	---------------------------

Compliance and Approvals

Compliance	RoHS
------------	------

Wireless Approvals	FCC, IC, CE
--------------------	-------------

Other

Mounting	Pole-mount kit
----------	----------------

ESD/EMP Protection	Air: ± 24 kV Contact: ± 24 kV
--------------------	--

Physical Characteristics

Enclosure	Outdoor UV stabilized plastic
-----------	-------------------------------

Dimensions	12.8 x 12.8 x 10.0" (32.5 x 32.5 x 25.6 cm)
------------	---

Weight	2.65 lb (1.20 kg)
--------	-------------------

Packaging Info

Box Dimensions (LxWxH)	15.8 x 11.9 x 8.9"
------------------------	--------------------
