

# NH360QM-DG-2XR



2-port small cell antenna, 2x (698-896 and 1695-2200 MHz), 360° HPBW, 2x RET with manual override, internal diplexer and active GPS L1 band antenna

## OBSOLETE

This product was discontinued on: November 30, 2023

### Replaced By:

NNVSS-360M-F3      12-port quasi-omni antenna, 4x 698-896, 4x1695-2690 and 4x 3100-4000MHz, 360° horizontal beamwidth, Fixed tilt.

## General Specifications

<b>Antenna Type</b>	Small Cell
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>GPS Connector Interface</b>	4.1-9.5 DIN Female
<b>GPS Connector Quantity</b>	1
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Internal GPS frequency band</b>	1,575.42 MHz
<b>Internal GPS VSWR</b>	2
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	ASA, UV stabilized
<b>Radiator Material</b>	Aluminum   Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, diplexed low and mid bands</b>	2
<b>RF Connector Quantity, total</b>	2

## Remote Electrical Tilt (RET) Information

<b>RET Interface</b>	8-pin DIN Male
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<b>RET Interface, quantity</b>	1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (1)   Low band (1)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Protocol</b>	3GPP/AISG 2.0 (Multi-RET)

## Dimensions

<b>Length</b>	982 mm   38.661 in
<b>Net Weight, without mounting kit</b>	15.3 kg   33.731 lb
<b>Outer Diameter</b>	305 mm   12.008 in

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2200 MHz   698 – 896 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	400 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200
<b>Gain, dBi</b>	6.1	7.1	9.7	9.9	9.9
<b>Beamwidth, Horizontal, degrees</b>	360	360	360	360	360
<b>Beamwidth, Vertical, degrees</b>	28.6	25.4	11.2	10.6	10.1
<b>Beam Tilt, degrees</b>	0–20	0–20	0–14	0–14	0–14
<b>USLS (First Lobe), dB</b>	16	15	14	13	13
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25
<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	125	125	125	125	125

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	167.0 N @ 150 km/h (37.5 lbf @ 150 km/h)
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<b>Wind Loading @ Velocity, maximum</b>	167.0 N @ 150 km/h (37.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	167.0 N @ 150 km/h (37.5 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

## Packaging and Weights

<b>Width, packed</b>	427 mm   16.811 in
<b>Depth, packed</b>	407 mm   16.024 in
<b>Length, packed</b>	1251 mm   49.252 in
<b>Weight, gross</b>	20.6 kg   45.415 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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