

# NH360QS-G-FOM



4-port small cell antenna, 2x 698-896 and 2x 1710-2180 MHz, 360° HPBW with fixed tilt in the low band and manual tilt in the high band. Contains active GPS L1 band antenna

## OBSOLETE

This product was discontinued on: March 27, 2020

### Replaced By:

NH360QS-FOM

4-port small cell antenna, 2x 698-896 and 2x 1710-2180 MHz, 360° HPBW with fixed tilt in the low band and manual tilt in the high band.

## 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, high band</b>	2
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	4

## Dimensions

# NH360QS-G-FOM

<b>Length</b>	728 mm   28.661 in
<b>Net Weight, without mounting kit</b>	12.5 kg   27.558 lb
<b>Outer Diameter</b>	305 mm   12.008 in

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1710 – 2180 MHz   698 – 896 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
<b>Gain, dBi</b>	5.3	5.6	8.6	9	9.4
<b>Beamwidth, Horizontal, degrees</b>	360	360	360	360	360
<b>Beamwidth, Vertical, degrees</b>	38.5	37	15.2	14.4	13.3
<b>Beam Tilt, degrees</b>	0	0	0–16	0–16	0–16
<b>USLS (First Lobe), dB</b>	15	10	14	13	11
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	30	30	30	30	30
<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

## Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180
<b>Gain by all Beam Tilts, average, dBi</b>	4.6	4.8	8.2	8.5	8.7
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.7	±1.3	±0.6	±0.5	±0.6
<b>Gain by Beam Tilt, average, dBi</b>			0° 8.4 8° 8.3 16° 7.8	0° 8.7 8° 8.5 16° 8.3	0° 9.0 8° 8.8 16° 8.5
<b>Beamwidth, Vertical Tolerance, degrees</b>	±6.3	±5.2	±1	±0.8	±1.8
<b>USLS, beampeak to 20° above beampeak, dB</b>			15	13	11

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## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	121.0 N @ 150 km/h (27.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	121.0 N @ 150 km/h (27.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	121.0 N @ 150 km/h (27.2 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 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>	998 mm   39.291 in
<b>Weight, gross</b>	17.2 kg   37.919 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>



## \* Footnotes

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