

# UNA008RI

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1-port inverted omni antenna, 694–896 MHz, 360° HPBW, 1x RET with manual override. Ships with F-129-S4 mounting kit.

## OBSOLETE

This product was discontinued on: March 27, 2020

## General Specifications

<b>Antenna Type</b>	Omni
<b>Band</b>	Single band
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Polyester fiberglass pultrusion
<b>Radiator Material</b>	Copper
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Top
<b>RF Connector Quantity, low band</b>	1
<b>RF Connector Quantity, total</b>	1

## Remote Electrical Tilt (RET) Information

<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<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 (Single RET)

## Dimensions

<b>Length</b>	2815 mm   110.827 in
<b>Net Weight, without mounting kit</b>	9.8 kg   21.605 lb
<b>Outer Diameter</b>	56 mm   2.205 in
<b>Tube Diameter</b>	288 mm (11.34 in)

## Electrical Specifications

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<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	694 – 896 MHz
<b>Polarization</b>	Vertical

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>694–896</b>
<b>Gain, dBi</b>	9.3
<b>Beamwidth, Horizontal, degrees</b>	360
<b>Beamwidth, Vertical, degrees</b>	9.6
<b>Beam Tilt, degrees</b>	0–8
<b>USLS (First Lobe), dB</b>	16
<b>VSWR   Return loss, dB</b>	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150
<b>Input Power per Port, maximum, watts</b>	150

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>694–896</b>
<b>Gain by all Beam Tilts, average, dBi</b>	8.5
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.6
<b>Gain by Beam Tilt, average, dBi</b>	0°   8.6 4°   8.8 8°   8.7
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1.3
<b>USLS, beampeak to 20° above beampeak, dB</b>	16

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	299.0 N @ 150 km/h (67.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	233.0 N @ 150 km/h (52.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	299.0 N @ 150 km/h (67.2 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	250 km/h (155 mph)

## Packaging and Weights

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<b>Width, packed</b>	300 mm   11.811 in
<b>Depth, packed</b>	3000 mm   118.11 in
<b>Length, packed</b>	3044 mm   119.843 in
<b>Weight, gross</b>	24.8 kg   54.675 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Above maximum concentration value
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>
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



## Included Products

- F-129-S4 – Fixed Tilt Pipe Mounting Kit for 2.0"-4.5" (50-115mm) OD round members for omni antennas. Includes 2 clamp sets.

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance