

# CMAX-OMF7-43-UWI53

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Cell-Max™ Low PIM 4x4 Omni MIMO In-building Antenna, 617-6000 MHz

## Product Classification

<b>Product Type</b>	In-building antenna
<b>Product Brand</b>	Cell-Max™

## General Specifications

<b>Application</b>	Indoor
<b>Antenna Type</b>	Omni
<b>Antenna Array Characteristic</b>	MIMO 4x4
<b>Polarization</b>	Linear Horizontal
<b>Color</b>	White (RAL 9016)
<b>Mounting</b>	Thru-hole ceiling mount (optional)
<b>Mounting Note</b>	For antenna installation on metal ceilings, please contact your local CommScope representative
<b>Number of Ports</b>	4
<b>Pigtail Cable</b>	670-141SXE, plenum rated
<b>Radome Material</b>	ASA+PC, UV stabilized
<b>RF Connector Interface</b>	4.3-10 Female

## Dimensions

<b>Height</b>	24 mm   0.945 in
<b>Pigtail Length</b>	500 mm   19.685 in
<b>Outer Diameter</b>	361 mm   14.213 in

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2700 MHz   3300 – 4200 MHz   4800 – 6000 MHz   617 – 698 MHz   698 – 960 MHz
<b>Electrical Note</b>	Values typical, unless otherwise stated

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## Electrical Specifications

Frequency Band, MHz	617–698	698–960	1695–2700	3300–4200	4800–6000
Gain, dBi	3.3	3.9	5.4	5.5	8.1
Beamwidth, Horizontal, degrees	360	360	360	360	360
Isolation, Cross Polarization, dB	17	17	20	30	30
VSWR   Return loss, dB	1.7 11.7	1.6 12.7	1.4 15.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	
Input Power per Port, maximum, watts	100	100	100	100	100

## Environmental Specifications

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Relative Humidity	Up to 100%

## Packaging and Weights

Width, packed	380 mm   14.961 in
Depth, packed	157 mm   6.181 in
Length, packed	407 mm   16.024 in
Weight, gross	1.7 kg   3.748 lb
Weight, net	1 kg   2.205 lb

## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

7850475	–	Omni Absorber ground plane to improve VSWR on metal ceilings (This product was designed to match the CMAX-OMF7-43-UWI53 antenna to metal ceiling)
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# 7850475



Omni Absorber ground plane to improve VSWR on metal ceilings (This product was designed to match the CMAX-OMF7-43-UWI53 antenna to metal ceiling)

## Product Classification

**Product Type** Cover

## General Specifications

**Color** White (RAL 9016)

## Dimensions

**Height** 31.5 mm | 1.24 in

**Outer Diameter** 363 mm | 14.291 in

## Electrical Performance

**VSWR data with antenna CMAX-OMF7-43-UWI53 on metal ceiling**

		617-698 [MHz]	698-960 [MHz]	1695-2700 [MHz]	3300-4000 [MHz]	4800-6000 [MHz]
VSWR	P1	22.5	16.5	2.63	1.77	1.69
	P2	23.1	16.8	2.81	1.89	1.86
	P3	22.8	16	2.71	1.85	1.66
	P4	22.9	16.5	2.67	1.91	1.86

**VSWR data with antenna CMAX-OMF7-43-UWI53 on metal ceiling with absorber**

		617-698 [MHz]	698-960 [MHz]	1695-2700 [MHz]	3300-4000 [MHz]	4800-6000 [MHz]
VSWR	P1	1.62	1.77	1.41	1.38	1.52
	P2	1.49	1.82	1.41	1.48	1.63
	P3	1.62	1.85	1.45	1.47	1.5
	P4	1.57	1.96	1.52	1.53	1.71

## Material Specifications

**Material Type** ASA | PC

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## Environmental Specifications

**UV Resistance**            UV stabilized

## Packaging and Weights

**Height, packed**            40 mm | 1.575 in

**Width, packed**            375 mm | 14.764 in

**Length, packed**            375 mm | 14.764 in

**Packaging quantity**        1

**Weight, gross**            850 g | 1.874 lb

**Weight, net**                700 g | 1.543 lb