

CMAX-OMF7-43-UWI53



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

Product Classification

Product Type	In-building antenna
Product Brand	Cell-Max™

General Specifications

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

Dimensions

Height	24 mm 0.945 in
Pigtail Length	500 mm 19.685 in
Outer Diameter	361 mm 14.213 in

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2700 MHz 3300 – 4200 MHz 4800 – 6000 MHz 617 – 698 MHz 698 – 960 MHz
Electrical Note	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	
Input Power per Port, maximum, watts	100	100	100	100	100

VSWR/Return Loss

Frequency Band	VSWR, Maximum	Return Loss, Maximum (dB)	VSWR, Mean	Return Loss, Mean (dB)
617–698 MHz	1.785	11	1.671	12
698–960 MHz	1.725	11.5	1.499	14
1695–2700 MHz	1.703	11.7	1.499	14
3300–4200 MHz	1.703	11.7	1.499	14
4800–6000 MHz	1.703	11.7	1.499	14

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

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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)

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

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

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

