

UACM-S

Wideband (450-6000MHz) Omni In-Building Antenna



The UACM-S[™] is Fractal Antenna System's flagship wideband antenna for ceiling mounted in-building Public Safety & DAS applications. Using our proprietary and patented FRACTAL technologies, the UACM-S[™] is built with *"future-proof"* ultra-wide bandwidth and excellent RF performance in the smallest & lightest form factor available

The Fractal Advantage[™]

Applications & Markets

- Public safety indoor DAS
- Cellular indoor DAS
- Neutral host provider systems
- Small cell systems

- Ultra-wide bandwidth for essentially all frequency applications in single antenna
- *"Future proof"* design ready for LTE, FirstNet, indoor 5G, CBRS, and other spectrum rollouts
- Excellent **RF performance** with ultra-wide bandwidth
- Smallest form factor for given performance on the market
- Made in USA of US and imported parts

Specifications (for commonly used frequencies)								
Frequency (MHz)	450-512	617-806	806-960	1350-1435	1670-2200	2200-3500	3500-4200	4200-6000
Max Gain (dBi)	1.3	1.6	4.3	4.5	5.1	6.2	6.4	7.2
Avg Gain (dBi)	1.0	1.0	3.5	3.5	4.5	5.5	5.5	6.0
Avg VSWR	<3:1	<3:1	<2.5:1	<2:1	<2:1	<2 :1	<2:1	<2:1
Impedance	50 Ω							
Polarization	Vertical							
Beamwidth	Omni (360°)							
Max Power	20 Watts							
Input Connect.	Single input, single output - Type N-Connector							

Mechanical Specifications					
Unit Number	UCS00 (w/ type N connector); UCS01 (w/ 18" pigtail type N connector)				
Antenna Weight	1.22 lbs (.55 kg)				
Antenna Height	4.75 inches				
Antenna Diameter	11.6 inches				
Operating Temp.	-40°F to 130°F				
Radome Material	Kydex, UL94 V-0 rating, White color				

For inquiries email us: sales@fractenna.com

Applicable Fractal Antenna Systems Patents: 7,190,318; 7,701,396; 9,825.368; and Patents Pending

Address: 213 Burlington Road, Bedford, MA, USA Phone: 781-275-2300

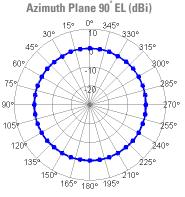


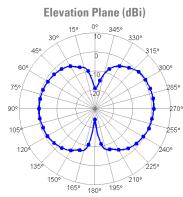
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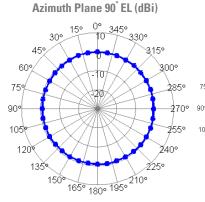
Antenna Power Patterns For Common Frequencies

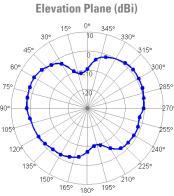
<u>400MHz</u>



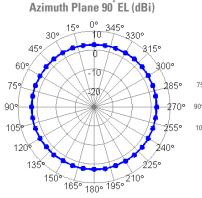


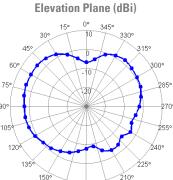
<u>698MHz</u>





<u>850MHz</u>



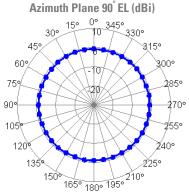


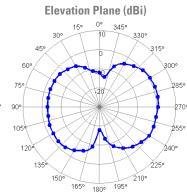
1809

195°

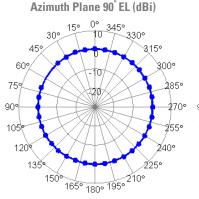
165

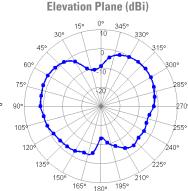
<u>512MHz</u>



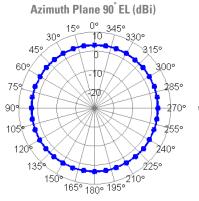


<u>750MHz</u>

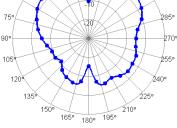




<u>1395MHz</u>



Elevation Plane (dBi)



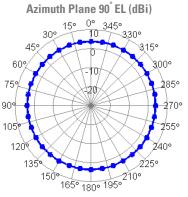


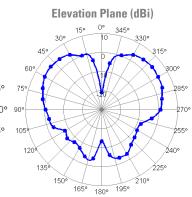
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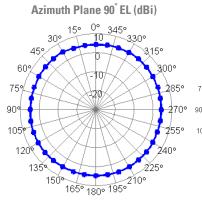
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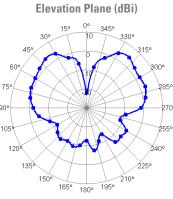
1750MHz



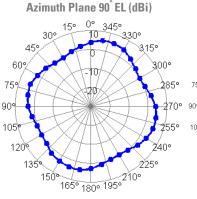


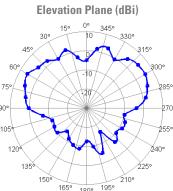
2700MHz





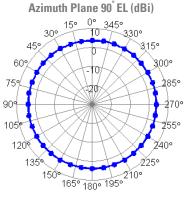
5200MHz

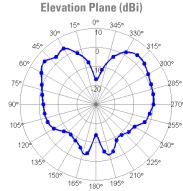




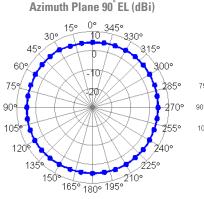
180°

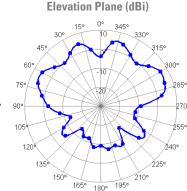
2200MHz



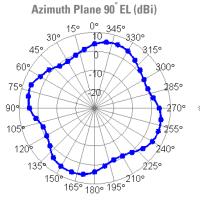


3600MHz





5900MHz



Elevation Plane (dBi) \315° 45 609 3nn• 759 285 90 105 120 135 225' 210 150

180°

1959

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