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 FRACANT technologies, the UACM-S™ is built with “future-proof” ultra-wide bandwidth and excellent RF performance in the smallest & lightest form factor available.

**Applications & Markets**
- Public safety indoor DAS
- Cellular indoor DAS
- Neutral host provider systems
- Small cell systems

**The Fractal Advantage™**
- 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 (both size and weight) for given performance on the market
- Made in USA

### Specifications
(for commonly used frequencies)

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>450-512</th>
<th>617-806</th>
<th>806-960</th>
<th>1350-1435</th>
<th>1670-2200</th>
<th>2200-3500</th>
<th>3500-4200</th>
<th>4200-6000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Gain (dBi)</td>
<td>1.3</td>
<td>1.6</td>
<td>4.3</td>
<td>4.5</td>
<td>5.1</td>
<td>6.2</td>
<td>6.4</td>
<td>7.2</td>
</tr>
<tr>
<td>Avg Gain (dBi)</td>
<td>1.0</td>
<td>1.0</td>
<td>3.5</td>
<td>3.5</td>
<td>4.5</td>
<td>5.5</td>
<td>5.5</td>
<td>6.0</td>
</tr>
<tr>
<td>Avg VSWR</td>
<td>&lt;3:1</td>
<td>&lt;3:1</td>
<td>&lt;2:1</td>
<td>&lt;2:1</td>
<td>&lt;2:1</td>
<td>&lt;2:1</td>
<td>&lt;2:1</td>
<td>&lt;2:1</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polarization</td>
<td>Vertical</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beamwidth</td>
<td>Omni (360°)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max Power</td>
<td>20 Watts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Input Connect.</td>
<td>Single input, single output - Type N-Connector</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### 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

400MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

512MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

698MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

750MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

850MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

1395MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)
Antenna Power Patterns For Common Frequencies

1750MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

2200MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

2700MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

3600MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

5200MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)

5900MHz

Azimuth Plane 90° EL (dBi)

Elevation Plane (dBi)