



CONNECTING  
PEOPLE +  
TECHNOLOGY

# IN-BUILDING DAS ANTENNAS

Amphenol's PIM-Rated antennas ensure reliable connectivity for all your Small Cell and iDAS applications.



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# IN-BUILDING DAS ANTENNAS

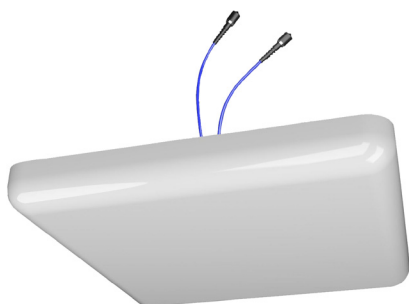
In office building, hospitals, universities and venues all around the world in-building wireless coverage is a necessity.

Amphenol's **PIM-RATED ANTENNAS** ensure reliable connectivity for all your Small Cell and iDAS applications. High gain omni and directional MIMO and SISO configurations are available for LTE, 3G, 4G and 5G, along with options for Public Safety.

Complete your iDAS network with Amphenol's line of quality **PASSIVE COMPONENTS** and **CABLE ASSEMBLIES**.

# MIMO

## IDAS ANTENNAS



|                         |                                                                         |                       |                        |                       |
|-------------------------|-------------------------------------------------------------------------|-----------------------|------------------------|-----------------------|
| MODEL NUMBER            | <b>MPA360-UWBVMIMO-x</b>                                                |                       |                        |                       |
| DESCRIPTION             | <b>2-Port Ceiling Mount Omni Antenna</b>                                |                       |                        |                       |
| CONFIGURATION           | <b>MIMO</b>                                                             |                       |                        |                       |
| FREQUENCY RANGE         | <b>698-6000 MHz</b>                                                     |                       |                        |                       |
| FREQUENCY SUB-RANGE     | LOW BAND<br>698-960                                                     | MID BAND<br>1695-2700 | CBRS BAND<br>3550-3700 | LAA BAND<br>5150-5925 |
| POLARIZATION            | Vertical                                                                |                       |                        |                       |
| GAIN                    | 4.7 dBi                                                                 | 8.5 dBi               | 6.1 dBi                | 8.2 dBi               |
| HORIZONTAL BEAMWIDTH    | 360°                                                                    | 360°                  | 360°                   | 360°                  |
| IMPEDANCE               | 50 Ohms                                                                 |                       |                        |                       |
| ISOLATION               | ≤ 17 dB (Max 40 dB)                                                     |                       |                        |                       |
| VSWR                    | ≤ 1.6                                                                   | ≤ 1.6                 | ≤ 1.6                  | ≤ 2.0                 |
| PASSIVE INTERMODULATION | ≤ -153 dBc                                                              |                       |                        |                       |
| MAXIMUM POWER           | 20 Watts                                                                |                       |                        |                       |
| CONNECTORS              | 2 Ports: 4.3-10 Pigtail (Plenum Rated) or N-Type Pigtail (Plenum Rated) |                       |                        |                       |
| DIMENSIONS              | 355.6 x 355.6 x 43.2 mm (14.0 x 14.0 x 1.7 in)                          |                       |                        |                       |
| WEIGHT                  | 0.86 kg (1.9 lbs)                                                       |                       |                        |                       |
| RADOME                  | PC-ABS                                                                  |                       |                        |                       |

# MIMO IDAS ANTENNAS



|                         |                                          |                       |                        |
|-------------------------|------------------------------------------|-----------------------|------------------------|
| MODEL NUMBER            | <b>5005370AM</b>                         |                       |                        |
| DESCRIPTION             | <b>2-Port Ceiling Mount Omni Antenna</b> |                       |                        |
| CONFIGURATION           | <b>MIMO</b>                              |                       |                        |
| FREQUENCY RANGE         | <b>698-4000 MHz</b>                      |                       |                        |
| FREQUENCY SUB-RANGE     | LOW BAND<br>698-960                      | MID BAND<br>1710-2700 | CBRS BAND<br>3550-3700 |
| POLARIZATION            | (2x) Linear                              |                       |                        |
| GAIN                    | 3.2 dBi                                  | 5.4 dBi               | 4.4 dBi                |
| HORIZONTAL BEAMWIDTH    | 360°                                     | 360°                  | 360°                   |
| IMPEDANCE               | 50 Ohms                                  |                       |                        |
| ISOLATION               | > 17 dB                                  | > 20 dB               | > 25 dB                |
| VSWR                    | < 2.0                                    | < 2.0                 | < 2.0                  |
| PASSIVE INTERMODULATION | -153 dBc                                 |                       |                        |
| MAXIMUM POWER           | 50 Watts                                 |                       |                        |
| CONNECTORS              | 2 Ports: 4.3-10 Female or N-Type Female  |                       |                        |
| DIMENSIONS              | 165 x 155 x 50 mm (6.5 x 6.1 x 2.0 in)   |                       |                        |
| WEIGHT                  | 0.3 kg (0.7 lbs)                         |                       |                        |
| RADOME                  | ABS, White, RAL9003                      |                       |                        |



|                         |                                         |                       |
|-------------------------|-----------------------------------------|-----------------------|
| MODEL NUMBER            | <b>7834400AM</b>                        |                       |
| DESCRIPTION             | <b>2-Port MicroCell Panel Antenna</b>   |                       |
| CONFIGURATION           | <b>MIMO</b>                             |                       |
| FREQUENCY RANGE         | <b>698-2700 MHz</b>                     |                       |
| FREQUENCY SUB-RANGE     | LOW BAND<br>698-960                     | MID BAND<br>1710-2700 |
| POLARIZATION            | ±45°                                    |                       |
| GAIN                    | 7.4 dBi                                 | 8.1 dBi               |
| HORIZONTAL BEAMWIDTH    | 78°                                     | 77°                   |
| VERTICAL BEAMWIDTH      | 69°                                     | 53°                   |
| IMPEDANCE               | 50 Ohms                                 |                       |
| ISOLATION               | > 20 dB                                 | > 23 dB               |
| VSWR                    | < 2.0                                   | < 1.5                 |
| PASSIVE INTERMODULATION | -153 dBc                                |                       |
| FRONT-TO-BACK RATIO     | > 13 dB                                 | > 22 dB               |
| MAXIMUM POWER           | 100 Watts                               |                       |
| CONNECTORS              | 2 Ports: 4.3-10 Female or N-Type Female |                       |
| DIMENSIONS              | 305 x 186 x 63 (12.0 x 7.3 x 2.5 in)    |                       |
| WEIGHT                  | 0.7 kg (1.5 lbs)                        |                       |
| RADOME                  | ABS, White                              |                       |

# MIMO IDAS ANTENNAS

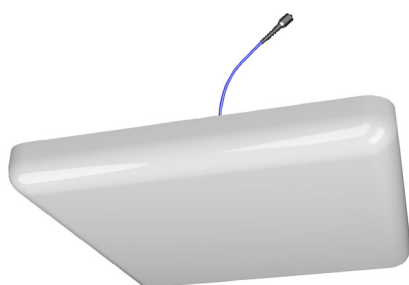


|                         |                                         |                       |                        |
|-------------------------|-----------------------------------------|-----------------------|------------------------|
| MODEL NUMBER            | <b>7834450AM</b>                        |                       |                        |
| DESCRIPTION             | <b>2-Port MicroCell Panel Antenna</b>   |                       |                        |
| CONFIGURATION           | <b>MIMO</b>                             |                       |                        |
| FREQUENCY RANGE         | <b>698-4000 MHz</b>                     |                       |                        |
| FREQUENCY SUB-RANGE     | LOW BAND<br>698-960                     | MID BAND<br>1710-2700 | CBRS BAND<br>3550-3700 |
| POLARIZATION            | Vertical and Horizontal                 |                       |                        |
| GAIN                    | 6.0 dBi                                 | 8.0 dBi               | 4.0 dBi                |
| HORIZONTAL BEAMWIDTH    | 80°                                     | 65°                   | 60°                    |
| VERTICAL BEAMWIDTH      | 47°                                     | 30°                   | 40°                    |
| IMPEDANCE               | 50 Ohms                                 |                       |                        |
| ISOLATION               | > 15 dB                                 | > 20 dB               | > 25 dB                |
| VSWR                    | ≤ 2.0                                   | ≤ 1.8                 | ≤ 1.8                  |
| PASSIVE INTERMODULATION | ≤ -153 dBc                              |                       |                        |
| FRONT-TO-BACK RATIO     | ≥ 8 dB                                  | ≥ 19 dB               | ≥ 5 dB                 |
| MAXIMUM POWER           | 50 Watts                                |                       |                        |
| CONNECTORS              | 2 Ports: 4.3-10 Female or N-Type Female |                       |                        |
| DIMENSIONS              | 406 x 180 x 62 mm (16.0 x 7.1 x 2.4 in) |                       |                        |
| WEIGHT                  | 1.5 kg (3.3 lbs)                        |                       |                        |
| RADOME                  | PVC, White, RAL9003                     |                       |                        |

# MIMO

# SISO

## IDAS ANTENNAS



|                         |                                                                        |                       |                        |                       |
|-------------------------|------------------------------------------------------------------------|-----------------------|------------------------|-----------------------|
| MODEL NUMBER            | <b>MPA360-UWBVSISO-x</b>                                               |                       |                        |                       |
| DESCRIPTION             | <b>1-Port Ceiling Mount Omni Antenna</b>                               |                       |                        |                       |
| CONFIGURATION           | <b>SISO</b>                                                            |                       |                        |                       |
| FREQUENCY RANGE         | <b>698-6000 MHz</b>                                                    |                       |                        |                       |
| FREQUENCY SUB-RANGE     | LOW BAND<br>698-960                                                    | MID BAND<br>1695-2700 | CBRS BAND<br>3550-3700 | LAA BAND<br>5150-5925 |
| POLARIZATION            | Vertical                                                               |                       |                        |                       |
| GAIN                    | 4.8 dBi                                                                | 8.5 dBi               | 6.2 dBi                | 8.2 dBi               |
| HORIZONTAL BEAMWIDTH    | 360°                                                                   | 360°                  | 360°                   | 360°                  |
| IMPEDANCE               | 50 Ohms                                                                |                       |                        |                       |
| VSWR                    | ≤ 1.6                                                                  | ≤ 1.6                 | ≤ 1.6                  | ≤ 2.0                 |
| PASSIVE INTERMODULATION | ≤ -153 dBc                                                             |                       |                        |                       |
| MAXIMUM POWER           | 20 Watts                                                               |                       |                        |                       |
| CONNECTORS              | 1 Port: 4.3-10 Pigtail (Plenum Rated) or N-Type Pigtail (Plenum Rated) |                       |                        |                       |
| DIMENSIONS              | 355.6 x 355.6 x 43.2 mm (14.0 x 14.0 x 1.7 in)                         |                       |                        |                       |
| WEIGHT                  | 0.68 kg (1.5 lbs)                                                      |                       |                        |                       |
| RADOME                  | PC-ABS                                                                 |                       |                        |                       |

# SISO IDAS ANTENNAS



|                         |                                          |                       |                        |                       |
|-------------------------|------------------------------------------|-----------------------|------------------------|-----------------------|
| MODEL NUMBER            | <b>5052470AM</b>                         |                       |                        |                       |
| DESCRIPTION             | <b>1-Port Ceiling Mount Omni Antenna</b> |                       |                        |                       |
| CONFIGURATION           | <b>SISO</b>                              |                       |                        |                       |
| FREQUENCY RANGE         | <b>698-6000 MHz</b>                      |                       |                        |                       |
| FREQUENCY SUB-RANGE     | LOW BAND<br>698-960                      | MID BAND<br>1710-2700 | CBRS BAND<br>3550-3700 | LAA BAND<br>5150-5925 |
| POLARIZATION            | Vertical                                 |                       |                        |                       |
| GAIN                    | 2.3 dBi                                  | 3.6 dBi               | 2.8 dBi                | 2.3 dBi               |
| HORIZONTAL BEAMWIDTH    | 360°                                     | 360°                  | 360°                   | 360°                  |
| IMPEDANCE               | 50 Ohms                                  |                       |                        |                       |
| VSWR                    | ≤ 1.8                                    | ≤ 1.5                 | ≤ 1.8                  | ≤ 1.8                 |
| PASSIVE INTERMODULATION | ≤ -153 dBc                               |                       |                        |                       |
| MAXIMUM POWER           | 50 Watts                                 |                       |                        |                       |
| CONNECTORS              | 1 Port: 4.3-10 Female or N-Type Female   |                       |                        |                       |
| DIMENSIONS              | Ø203 x 114 mm (Ø8.0 x 4.5 in)            |                       |                        |                       |
| WEIGHT                  | 0.5 kg (1.1 lbs)                         |                       |                        |                       |
| RADOME                  | ABS, White, RAL9003                      |                       |                        |                       |



|                         |                                          |                       |                        |
|-------------------------|------------------------------------------|-----------------------|------------------------|
| MODEL NUMBER            | <b>5086000AM</b>                         |                       |                        |
| DESCRIPTION             | <b>1-Port Ceiling Mount Omni Antenna</b> |                       |                        |
| CONFIGURATION           | <b>SISO</b>                              |                       |                        |
| FREQUENCY RANGE         | <b>698-4000 MHz</b>                      |                       |                        |
| FREQUENCY SUB-RANGE     | LOW BAND<br>698-960                      | MID BAND<br>1710-2700 | CBRS BAND<br>3550-3700 |
| POLARIZATION            | Horizontal                               |                       |                        |
| GAIN                    | 7.3 dBi                                  | 6.2 dBi               | 4.1 dBi                |
| HORIZONTAL BEAMWIDTH    | 360°                                     | 360°                  | 360°                   |
| IMPEDANCE               | 50 Ohms                                  |                       |                        |
| VSWR                    | < 1.5                                    | < 1.5                 | < 1.5                  |
| PASSIVE INTERMODULATION | -153 dBc                                 |                       |                        |
| MAXIMUM POWER           | 50 Watts                                 |                       |                        |
| CONNECTORS              | 1 Port: 4.3-10 Female or N-Type Female   |                       |                        |
| DIMENSIONS              | Ø220 x 18 mm (Ø8.7 x 0.7 in)             |                       |                        |
| WEIGHT                  | 0.3 kg (0.7 lbs)                         |                       |                        |
| RADOME                  | ABS, White, RAL9003                      |                       |                        |

# SISO IDAS ANTENNAS



|                         |                                         |                       |                        |
|-------------------------|-----------------------------------------|-----------------------|------------------------|
| MODEL NUMBER            | <b>5003700AM</b>                        |                       |                        |
| DESCRIPTION             | <b>1-Port MicroCell Panel Antenna</b>   |                       |                        |
| CONFIGURATION           | <b>SISO</b>                             |                       |                        |
| FREQUENCY RANGE         | <b>698-4000 MHz</b>                     |                       |                        |
| FREQUENCY SUB-RANGE     | LOW BAND<br>698-960 MHz                 | MID BAND<br>1710-2700 | CBRS BAND<br>3550-3700 |
| POLARIZATION            | Vertical                                |                       |                        |
| GAIN                    | 7.0 dBi                                 | 8.0 dBi               | 6.0 dBi                |
| HORIZONTAL BEAMWIDTH    | 85°                                     | 70°                   | 70°                    |
| VERTICAL BEAMWIDTH      | 65°                                     | 30°                   | 30°                    |
| IMPEDANCE               | 50 Ohms                                 |                       |                        |
| VSWR                    | ≤ 1.8                                   |                       |                        |
| PASSIVE INTERMODULATION | -153 dBc                                |                       |                        |
| FRONT-TO-BACK RATIO     | ≥ 9 dB                                  | ≥ 20 dB               | ≥ 14 dB                |
| MAXIMUM POWER           | 50 Watts                                |                       |                        |
| CONNECTORS              | 1 Port: 4.3-10 Female or N-Type Female  |                       |                        |
| DIMENSIONS              | 183 x 172 x 62 mm (7.2 x 6.75 x 2.4 in) |                       |                        |
| WEIGHT                  | 0.3 kg (0.7 lbs)                        |                       |                        |
| RADOME                  | ABS, White, RAL9003                     |                       |                        |



|                         |                                        |                       |
|-------------------------|----------------------------------------|-----------------------|
| MODEL NUMBER            | <b>5003500AM</b>                       |                       |
| DESCRIPTION             | <b>1-Port MicroCell Panel Antenna</b>  |                       |
| CONFIGURATION           | <b>SISO</b>                            |                       |
| FREQUENCY RANGE         | <b>698-2700 MHz</b>                    |                       |
| FREQUENCY SUB-RANGE     | LOW BAND<br>698-960                    | MID BAND<br>1710-2700 |
| POLARIZATION            | Vertical                               |                       |
| GAIN                    | 7.2 dBi                                | 8.7 dBi               |
| HORIZONTAL BEAMWIDTH    | 95°                                    | 80°                   |
| VERTICAL BEAMWIDTH      | 60°                                    | 40°                   |
| IMPEDANCE               | 50 Ohms                                |                       |
| VSWR                    | < 1.5                                  | < 1.5                 |
| PASSIVE INTERMODULATION | -153 dBc                               |                       |
| FRONT-TO-BACK RATIO     | > 10 dB                                | > 17 dB               |
| MAXIMUM POWER           | 50 Watts                               |                       |
| CONNECTORS              | 1 Port: 4.3-10 Female or N-Type Female |                       |
| DIMENSIONS              | 165 x 155 x 50 mm (6.5 x 6.1 x 2.0 in) |                       |
| WEIGHT                  | 0.37 kg (0.8 lbs)                      |                       |
| RADOME                  | ABS, White, RAL9003                    |                       |



# IDAS ANTENNAS FOR PUBLIC SAFETY



**600 MHz** Capable

|                         |                                          |                     |                       |
|-------------------------|------------------------------------------|---------------------|-----------------------|
| MODEL NUMBER            | <b>5086100AM</b>                         |                     |                       |
| DESCRIPTION             | <b>1-Port Ceiling Mount Omni Antenna</b> |                     |                       |
| APPLICATION             | <b>PUBLIC SAFETY</b>                     |                     |                       |
| FREQUENCY RANGE         | <b>380-2700 MHz</b>                      |                     |                       |
| FREQUENCY SUB-RANGE     | UHF BAND<br>380-520                      | LOW BAND<br>617-960 | MID BAND<br>1710-2700 |
| POLARIZATION            | Horizontal                               |                     |                       |
| GAIN                    | 1.8 dBi                                  | 5.1 dBi             | 7.0 dBi               |
| HORIZONTAL BEAMWIDTH    | 360°                                     | 360°                | 360°                  |
| IMPEDANCE               | 50 Ohms                                  |                     |                       |
| VSWR                    | < 1.7                                    | < 1.7               | < 1.7                 |
| PASSIVE INTERMODULATION | n/a                                      | -150 dBc            | -150 dBc              |
| MAXIMUM POWER           | 50 Watts                                 |                     |                       |
| CONNECTORS              | 1 Port, N-Type Female                    |                     |                       |
| DIMENSIONS              | Ø266 x 18 mm (Ø10.5 x 0.7 in)            |                     |                       |
| WEIGHT                  | 0.4 kg (0.9 lbs)                         |                     |                       |
| RADOME                  | ABS, White, RAL9003                      |                     |                       |

# PUBLIC SAFETY IDAS ANTENNAS



**600 MHz** Capable

|                         |                                          |                     |                       |                        |                       |
|-------------------------|------------------------------------------|---------------------|-----------------------|------------------------|-----------------------|
| MODEL NUMBER            | <b>5052460AM</b>                         |                     |                       |                        |                       |
| DESCRIPTION             | <b>1-Port Ceiling Mount Omni Antenna</b> |                     |                       |                        |                       |
| APPLICATION             | <b>PUBLIC SAFETY</b>                     |                     |                       |                        |                       |
| FREQUENCY RANGE         | <b>380-6000 MHz</b>                      |                     |                       |                        |                       |
| FREQUENCY SUB-RANGE     | UHF BAND<br>380-520                      | LOW BAND<br>617-960 | MID BAND<br>1710-2700 | CBRS BAND<br>3550-3700 | LAA BAND<br>5150-5925 |
| POLARIZATION            | Vertical                                 |                     |                       |                        |                       |
| GAIN                    | 2.1 dBi                                  | 2.9 dBi             | 6.7 dBi               | 5.1 dBi                | 7.0 dBi               |
| HORIZONTAL BEAMWIDTH    | 360°                                     | 360°                | 360°                  | 360°                   | 360°                  |
| IMPEDANCE               | 50 Ohms                                  |                     |                       |                        |                       |
| VSWR                    | < 2.5                                    | < 2.0               | < 1.5                 | < 1.5                  | < 1.5                 |
| PASSIVE INTERMODULATION | n/a                                      | < -153 dBc          | < -153 dBc            | < -153 dBc             | < -153 dBc            |
| MAXIMUM POWER           | 50 Watts                                 |                     |                       |                        |                       |
| CONNECTORS              | 1 Port: 4.3-10 Female or N-Type Female   |                     |                       |                        |                       |
| DIMENSIONS              | Ø298 x 152 mm (Ø11.7 x 6.0 in)           |                     |                       |                        |                       |
| WEIGHT                  | 0.9 kg (2.0 lbs)                         |                     |                       |                        |                       |
| RADOME                  | ABS, White, RAL9003                      |                     |                       |                        |                       |

# PUBLIC SAFETY

COMPLETE YOUR iDAS NETWORK WITH

# LOW-PIM

## PASSIVE COMPONENTS & CABLE ASSEMBLIES

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LOW POWER  
DAS SPLITTERS



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DIRECTIONAL  
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TAPPERS



INDOOR JUMPERS



DC BLOCKS





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