

# ANT-5G-ASM-07 Series

GSM/UMTS/LTE/5G NR, 7 dBi, omnidirectional, rubber-duck antennas



### Features and Benefits

- Supports 5G NR and 4G LTE
- High-gain antenna to enhance performance
- Lightweight for portable deployment
- Tilt and swivel design
- Flexible installation
- SMA connector (male) supported

### Introduction

The ANT-5G-ASM-07 Series is an omnidirectional lightweight compact antenna suitable for GSM, UMTS, LTE, and 5G NR bands. The antenna provides a gain of 7 dBi and is designed to operate in temperatures ranging from -40 to 85°C.

### Specifications

| Antenna Characteristics |                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency               | 617 to 960, 1710 to 2170, 2300 to 2690, 3300 to 3800, 4200 to 4700, 5000 to 5925 MHz                                                                                                                                                                                                                         |
| Antenna Type            | Omni-directional                                                                                                                                                                                                                                                                                             |
| Typical Antenna Gain    | 1.29 dBi @ 617 to 698 MHz<br>2.00 dBi @ 698 to 824 MHz<br>1.29 dBi @ 824 to 960 MHz<br>3.77 dBi @ 1710 to 1880 MHz<br>4.55 dBi @ 1850 to 1990 MHz<br>5.49 dBi @ 1920 to 2170 MHz<br>5.21 dBi @ 2300 to 2690 MHz<br>5.14 dBi @ 3300 to 3800 MHz<br>6.57 dBi @ 4200 to 4700 MHz<br>7.72 dBi @ 5000 to 5925 MHz |
| Connector               | SMA (male)                                                                                                                                                                                                                                                                                                   |
| Impedance               | 50 ohms                                                                                                                                                                                                                                                                                                      |
| Polarization            | Linear, Vertical                                                                                                                                                                                                                                                                                             |
| HPBW/Horizontal         | 360°                                                                                                                                                                                                                                                                                                         |
| V.S.W.R.                | < 7.5 @ 617 to 698 MHz<br>< 4.5 @ 698 to 824 MHz<br>< 4.4 @ 824 to 960 MHz<br>< 1.9 @ 1710 to 1880 MHz<br>< 2.7 @ 1850 to 1990 MHz<br>< 4.1 @ 1920 to 2170 MHz<br>< 2.1 @ 2300 to 2690 MHz<br>< 2.5 @ 3300 to 3800 MHz<br>< 1.9 @ 4200 to 4700 MHz<br>< 2.0 @ 5000 to 5925 MHz                               |

## Physical Characteristics

|                 |                  |
|-----------------|------------------|
| Weight          | 35.8 g (0.08 lb) |
| Length          | 220 mm (8.66 in) |
| Radome Color    | Black            |
| Radome Material | Plastic          |
| Installation    | Straight mount   |

## Environmental Limits

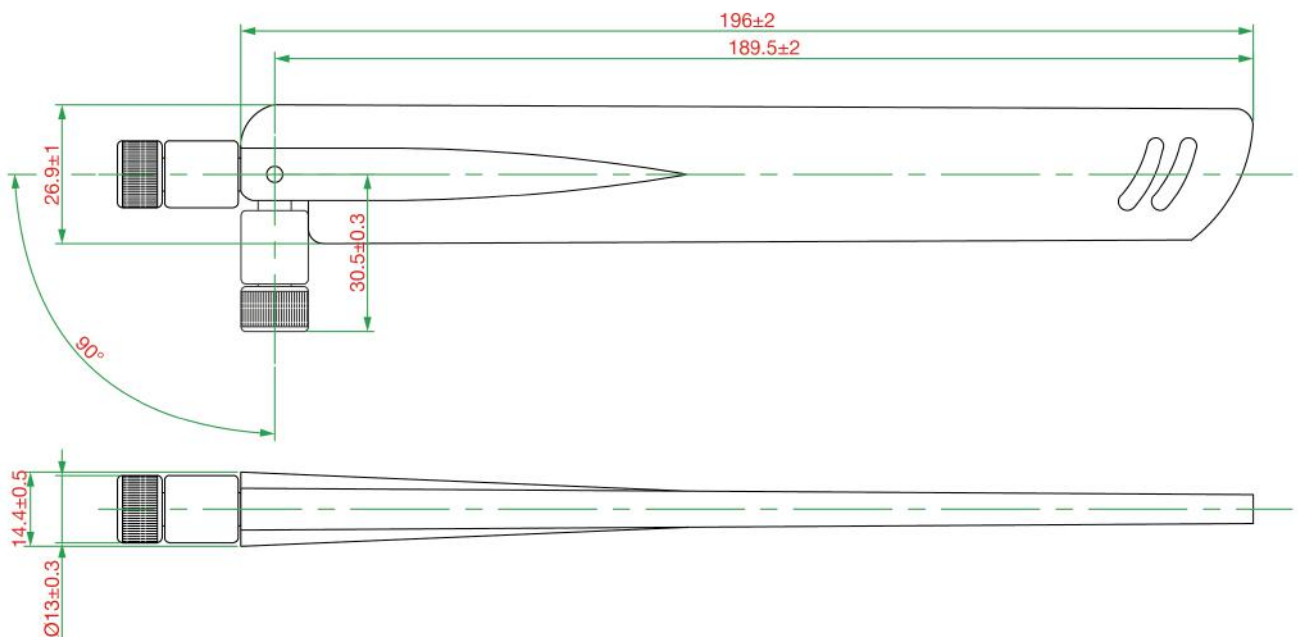
|                                        |                                 |
|----------------------------------------|---------------------------------|
| Operating Temperature                  | -40 to 85°C (-40 to 185°F)      |
| Storage Temperature (package included) | -40 to 85°C (-40 to 185°F)      |
| Ambient Relative Humidity              | 5 to 95% (30°C, non-condensing) |

## Warranty

|                 |                                                                      |
|-----------------|----------------------------------------------------------------------|
| Warranty Period | 1 year                                                               |
| Details         | See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a> |

## Dimensions

Unit: mm



## Ordering Information

| Model Name    | Frequency                                                                                                               | Antenna Type    | Antenna Gain | Connector Type |
|---------------|-------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|----------------|
| ANT-5G-ASM-07 | 617 to 960 MHz,<br>1710 to 2170 MHz,<br>2300 to 2690 MHz,<br>3300 to 3800 MHz,<br>4200 to 4700 MHz,<br>5000 to 5925 MHz | Omnidirectional | 7 dBi        | SMA (male)     |

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