

# MAT-WDB-DA-RM-2-0203-1m Series

2 dBi at 2.4 GHz or 3 dBi at 5 GHz, RP-SMA-type(male), 2x2 MIMO, dual-band desktop antennas with 1 m cables



## Features and Benefits

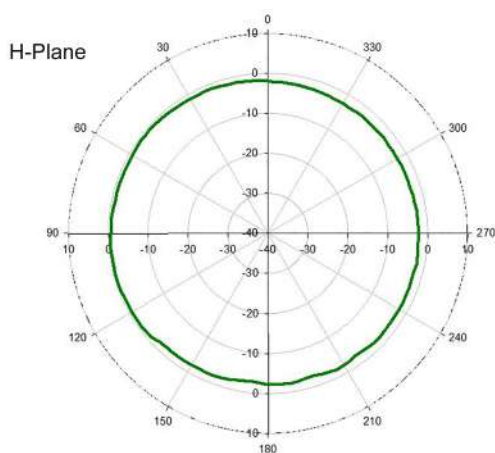
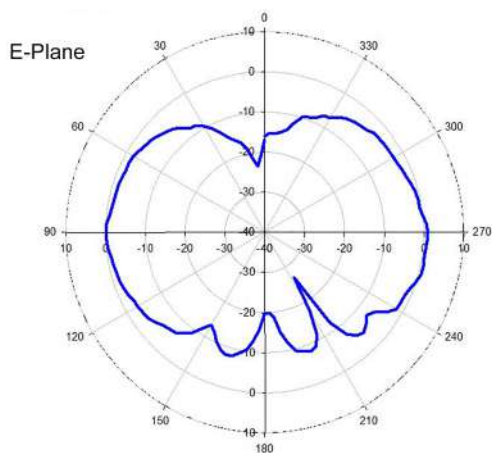
- Small size for easy installation
- Desktop mount
- RP-SMA-type (male) connector

## Introduction

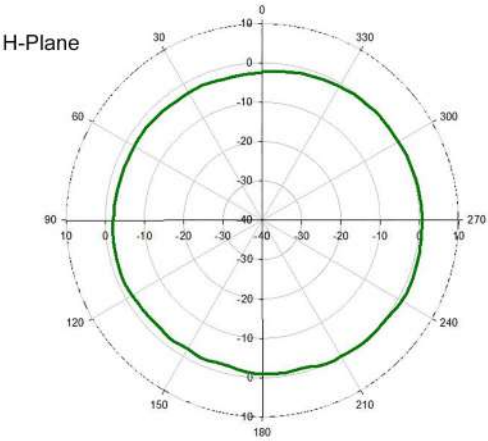
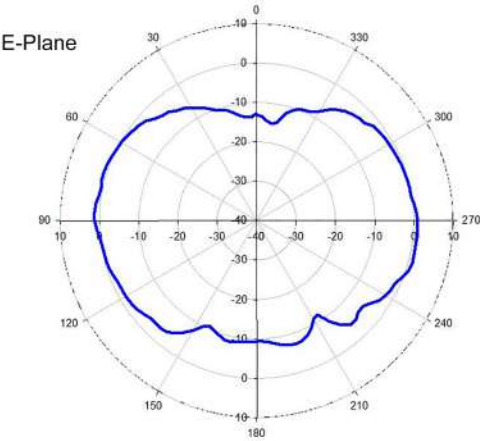
The MAT-WDB-DA-RM-2-0203-1m antenna is a compact MIMO 2x2 dual-band desktop antenna with a RP-SMA-type (male) connector. The antenna can be used in both the 2.4 GHz and 5 GHz frequencies, provides an antenna gain of 2/3 dBi, and comes with a 1-m cable.

## Field Patterns

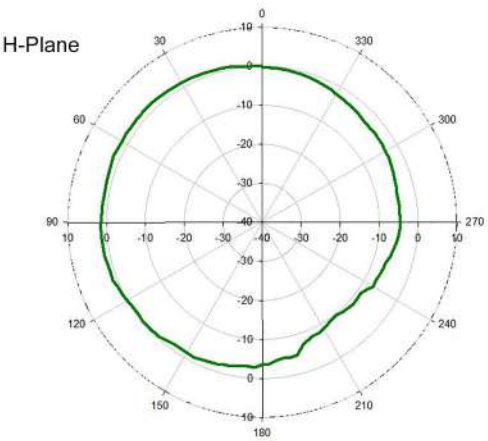
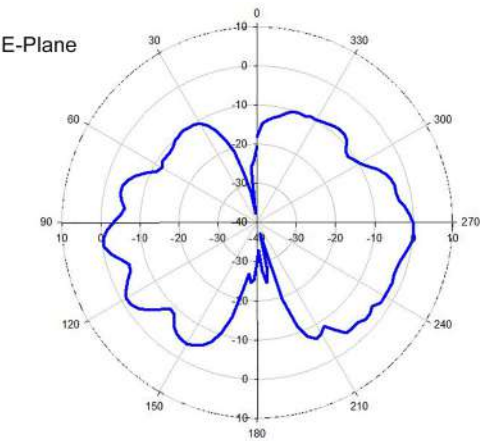
### Port 1 Frequency: 2.4 GHz



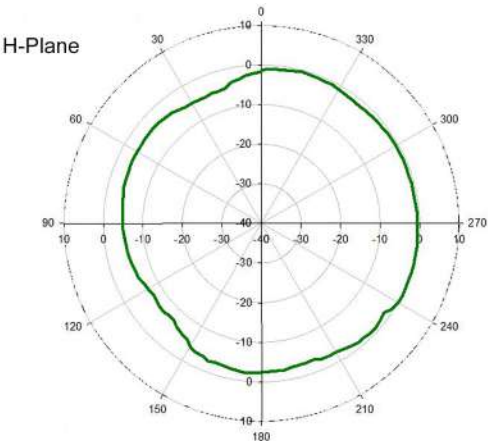
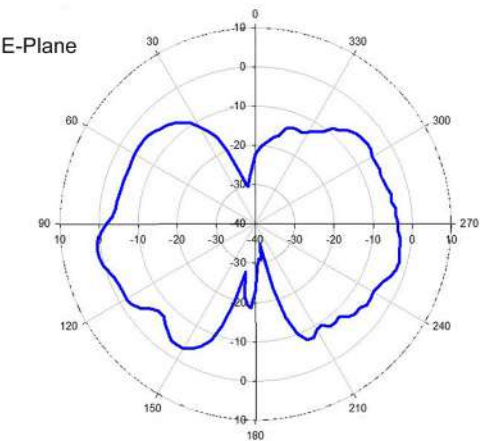
Port 2 Frequency: 2.4 GHz



Port 1 Frequency: 5 GHz



Port 2 Frequency: 5 GHz



Specifications

Antenna Characteristics

|                      |                              |
|----------------------|------------------------------|
| Frequency            | 2.4 to 2.5, 4.9 to 5.85 GHz  |
| Antenna Type         | MIMO 2x2<br>Omni-directional |
| Typical Antenna Gain | 2/3 dBi                      |
| Connector            | RP-SMA (male)                |
| Impedance            | 50 ohms                      |

|                 |                    |
|-----------------|--------------------|
| Polarization    | Linear<br>Vertical |
| HPBW/Horizontal | 360/114°           |
| HPBW/Vertical   | 75/54°             |
| V.S.W.R.        | 2:1 max.           |
| Power Handling  | 2 W (max.)         |

#### Physical Characteristics

|                             |                      |
|-----------------------------|----------------------|
| Weight                      | 156 g (0.34 lb)      |
| Length (including RF cable) | 1094.3 mm (43.08 in) |
| IP Rating                   | IP55                 |
| Radome Color                | Black                |
| Radome Material             | PC-1250G             |
| Installation                | Desktop Mount        |
| Cable                       | RG-174               |
| Cable Length                | 1 m                  |

#### Environmental Limits

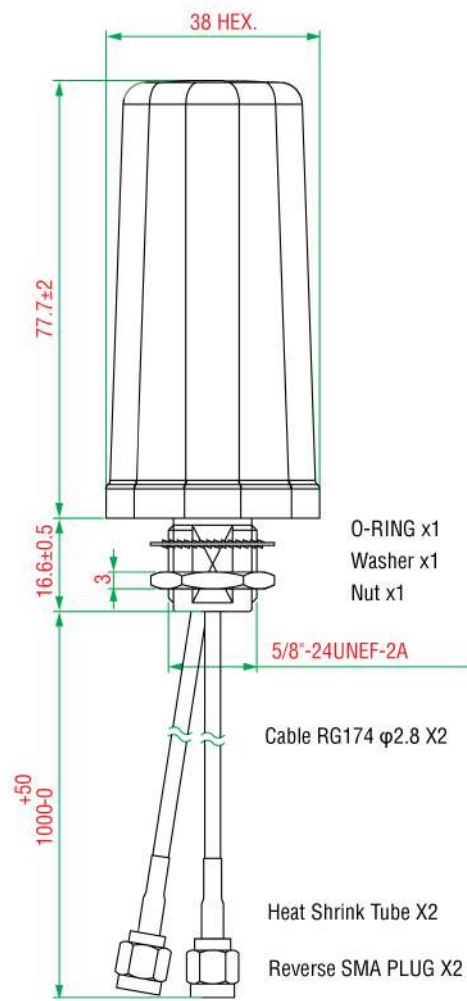
|                                        |                                 |
|----------------------------------------|---------------------------------|
| Operating Temperature                  | -40 to 75°C (-40 to 167°F)      |
| Storage Temperature (package included) | -40 to 75°C (-40 to 167°F)      |
| 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     |
|-------------------------|-----------------------------|----------------------------|--------------|---------------|
| MAT-WDB-DA-RM-2-0203-1m | 2.4 to 2.5, 4.9 to 5.85 GHz | MIMO 2x2, Omni-directional | 2/3 dBi      | RP-SMA (male) |

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