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# Specifications of Air Patch Ant.

IDRO.Co.,Ltd

ITEM : Air Patch Antenna

PART NAME : IDRO260-915

MODEL NAME

FEATURES : 900 MHz ISM Band

Provide highly stabilized performance

Circular microstrip patch antenna

DATE : June 03, 2021

QUANTITY : pcs

| SUPPLIER : IDRO                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| DRAWN                                                                               | CHECKED                                                                             | APPROVED                                                                             |
|  |  |  |

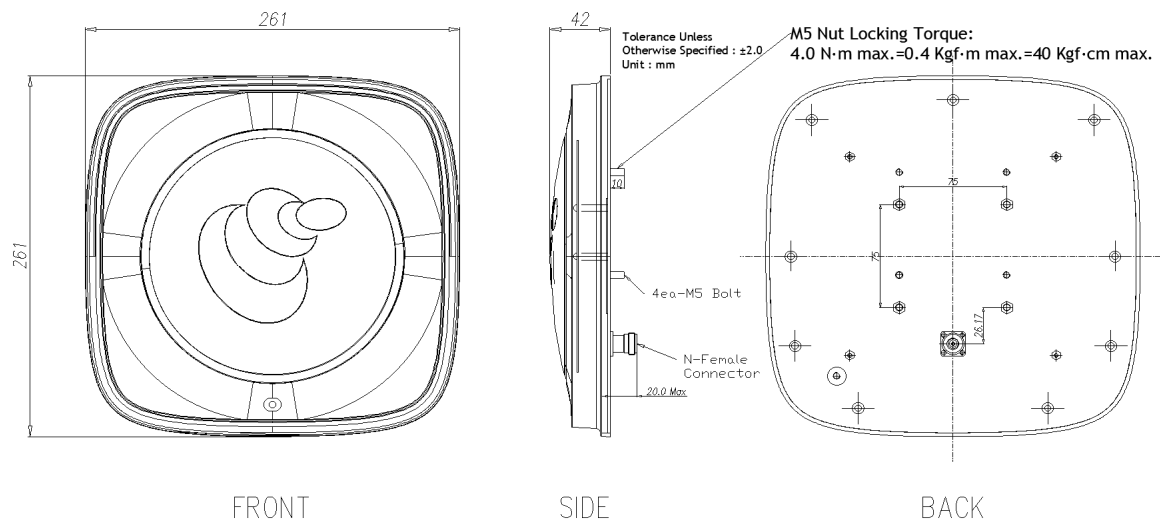


|                                                                                   |                           |              |         |
|-----------------------------------------------------------------------------------|---------------------------|--------------|---------|
|  | IDRO260 ANT Specification |              |         |
|                                                                                   | Company                   | Draw up date | version |
|                                                                                   | IDRO Co.,Ltd              | 2021-06-03   | V1.6.03 |

## 1. Electrical Specifications.

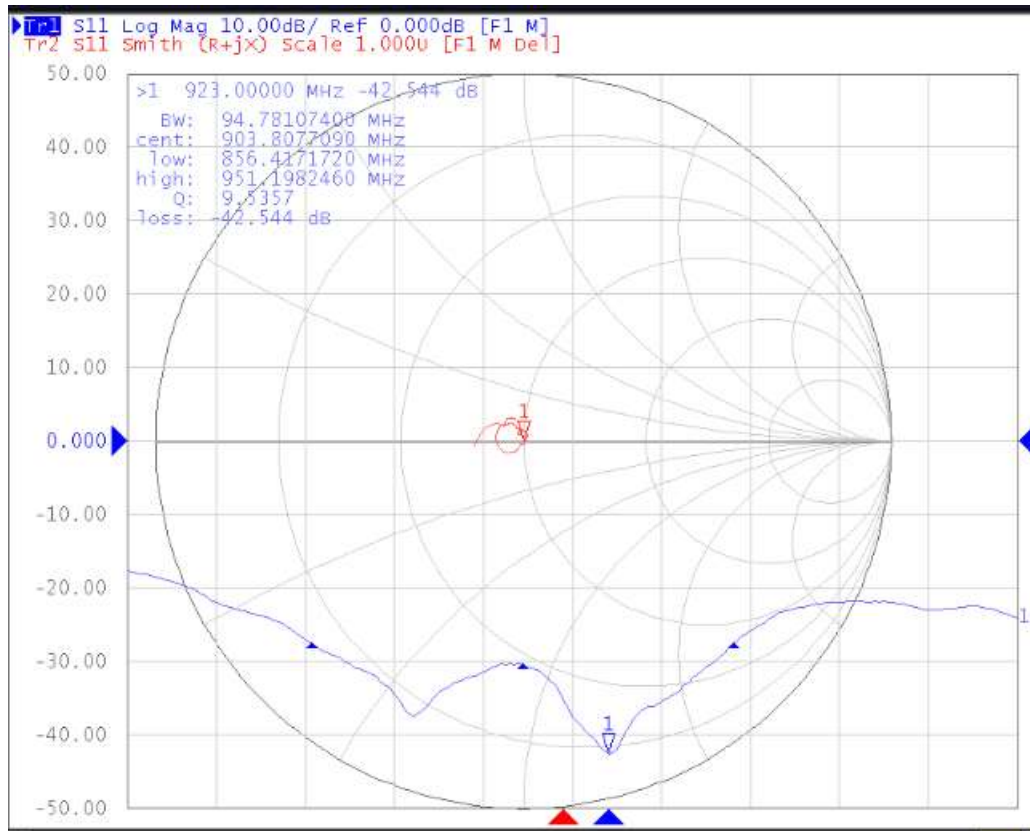
| NO. | Parameter        | Spec.        | Unit  | Remark       |
|-----|------------------|--------------|-------|--------------|
| 1   | Center Frequency | 915.0        | MHz   |              |
| 2   | Band Width       | 94 typ.      | MHz   | @ -15 dB R.L |
| 3   | VSWR             | 1.3 : 1 max. | Ratio |              |
| 4   | Impedance        | 50           | Ohms  |              |
| 5   | Peak Gain        | 6.0 typ.     | dBi   |              |
| 6   | Polarization     | RHCP         |       |              |
| 7   | Beam Width       | 62 typ.      | Deg.  |              |

## 2. Mechanical Dimensions. (unit : mm)



|                                                                                   |                           |              |         |
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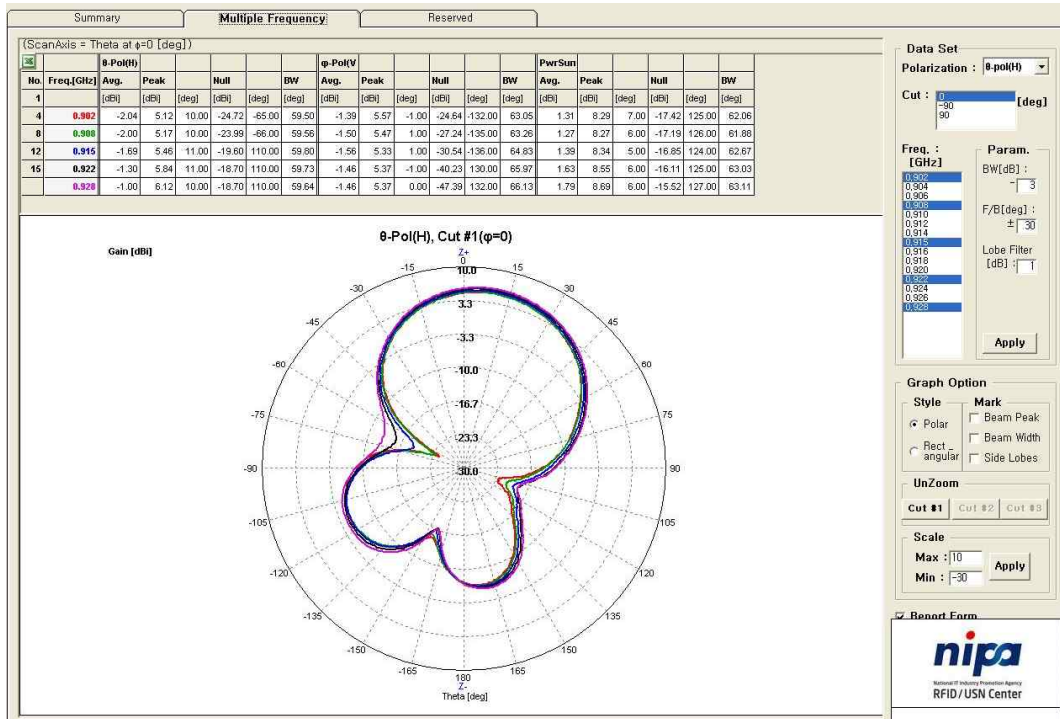
### 3. S11 Measurement Data



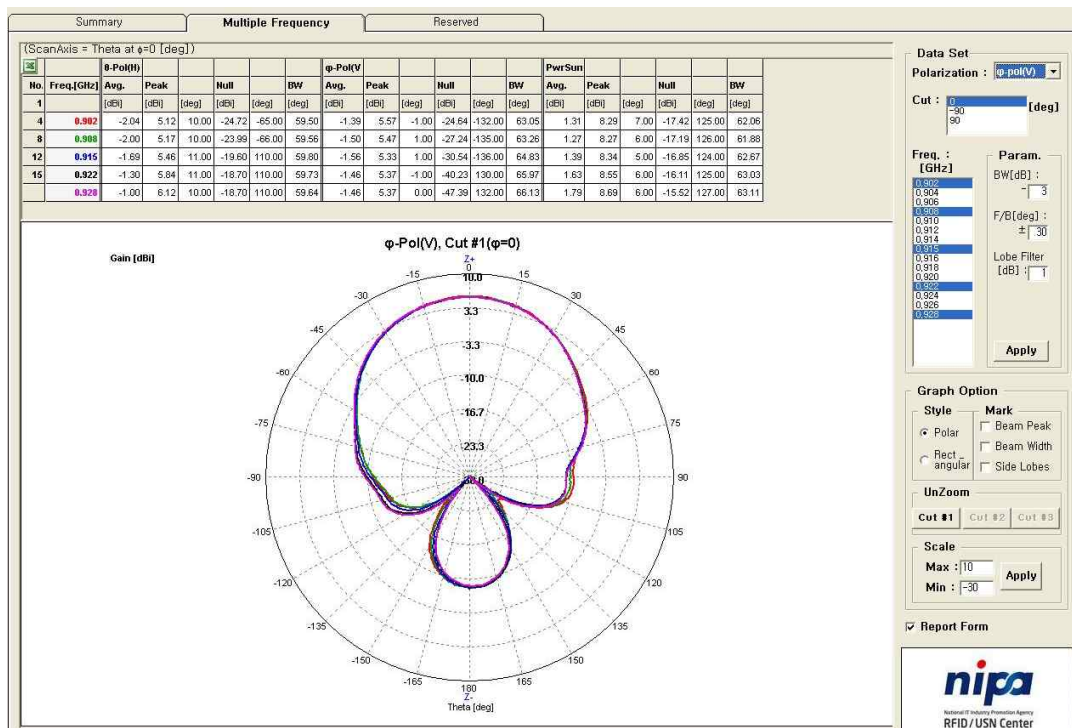
|                                                                                   |                           |              |         |
|-----------------------------------------------------------------------------------|---------------------------|--------------|---------|
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|                                                                                   | IDRO Co.,Ltd              | 2021-06-03   | V1.6.03 |

## 4. Radiation Patterns. (Test date 2014.02.24)

### 4-1. H-Pol. (Frequency 902.0, 908.0, 915.0, 922.0, 928.0 MHz)



### 4-2. V-Pol. (Frequency 902.0, 908.0, 915.0, 922.0, 928.0 MHz)



|                                                                                   |                           |              |         |
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#### 4-3. Gain Test data

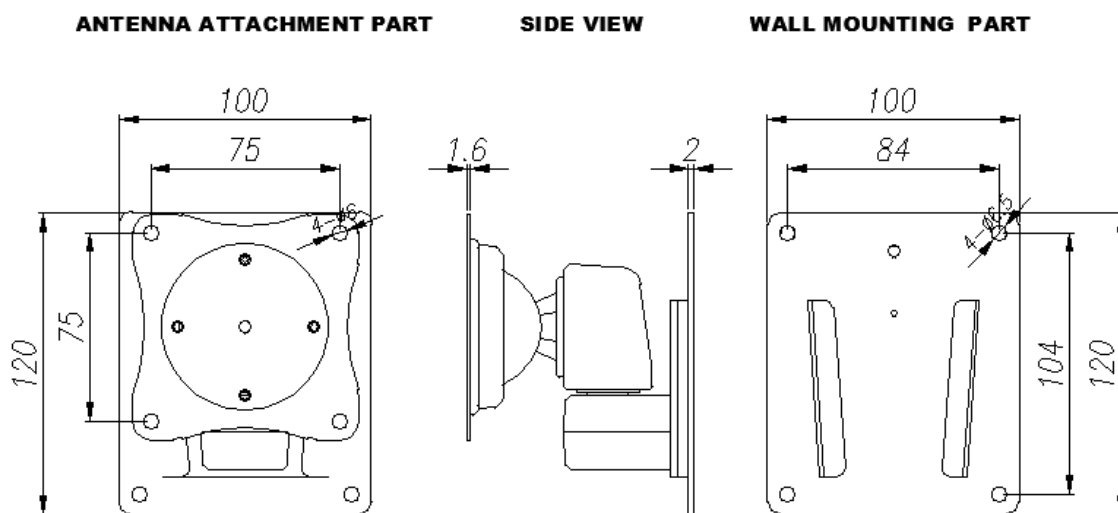
| Source Antenna Polarization | Gain      |           |           |           |           |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|
|                             | 902.0 MHz | 908.0 MHz | 915.0 MHz | 922.0 MHz | 928.0 MHz |
| H-pol. (dBi)                | 5.12      | 5.17      | 5.46      | 5.84      | 6.12      |
| V-pol. (dBi)                | 5.57      | 5.47      | 5.33      | 5.37      | 5.37      |
| RHCP(dBic)                  | 8.28      | 8.26      | 8.32      | 8.52      | 8.65      |

#### 4-4. List of utilized test equipment (IDRO)

| NO | Kind of Equipment and Precision               | Manufacturer                  | Model No.             | Serial Number | Calibration Date | Specification                                         | Note              |
|----|-----------------------------------------------|-------------------------------|-----------------------|---------------|------------------|-------------------------------------------------------|-------------------|
| 1  | Anechoic Chamber                              | MTG/ETS                       | Full Anechoic Chamber | -             | N/A              | 15.24 m X 7.9 m X 7.9 m (0.4 ~ 18 GHz)                |                   |
| 2  | Network Analyzer                              | Agilent                       | E8362B                | MY43021301    | 13/09/06         | 10 MHz ~ 20 GHz                                       |                   |
| 3  | Dual-Polarization Horn Antenna with RF Switch | MTG                           | QRH-004060            |               | -                | 0.4 MHz ~ 6 GHz                                       | Source            |
| 4  | Calibration Antenna                           | Schwarzbeck Mess - Elektronik | BBHA 9120 LF          | 254           | 10/12/24         | 0.7 MHz ~ 6 GHz                                       | Source/ Reference |
| 5  | Absorber Installation                         | ETS                           | EHP series            |               |                  | Reflectivity :<br>-25 dB @ 0.4 GHz<br>-50 dB @ 18 GHz |                   |

|                                                                                   |                           |              |         |
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## 5. Option : Antenna Attachment Bracket

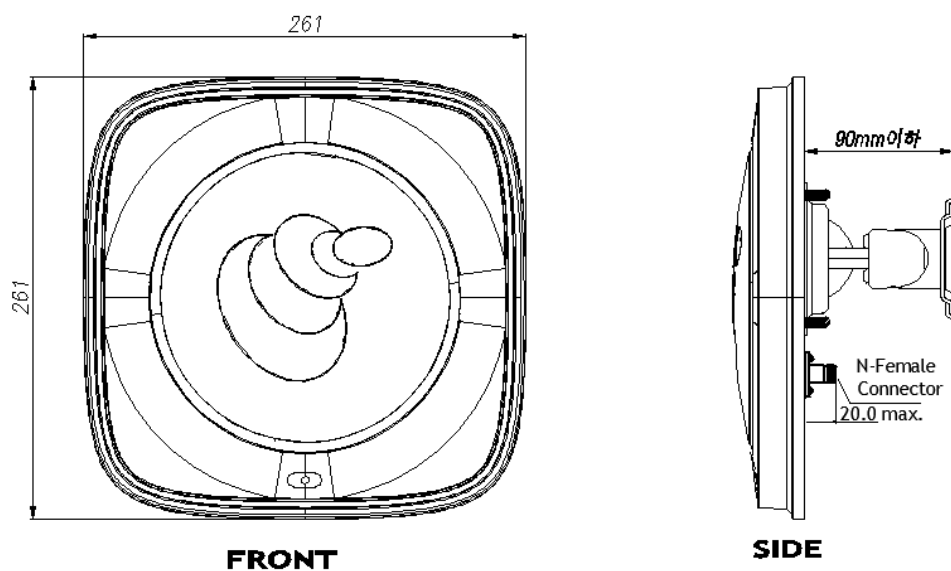


UNIT : mm

### ANTENNA ATTACHMENT BRACKET

#### NOTE

The antenna bracket specifications can be changed due to product discontinuance.  
Please contact our sales team before purchasing the antenna bracket.



### ANTENNA & BRACKET Ass'y