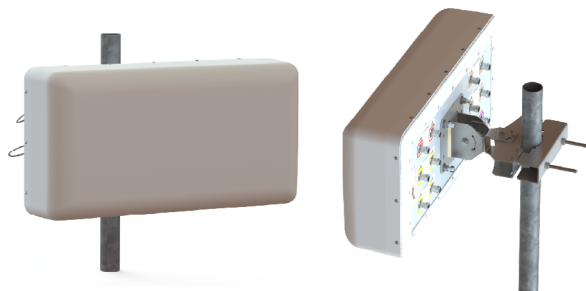


## 30°/60° 12-Port Directional Panel Antenna [617-896, 1695-2690, 3400-3800 and 5150-5925 MHz]

# GP2712-06367

### Description:

- Single-sector 12-Port MIMO antenna for high capacity and stadium venues.
- 30°/60° beam width dual-polarized covering 600 MHz/LTE/ CELL, AWS/PCS/WCS/BRS, CBRS and LAA / U-NII Bands.
- 2x ports for 617-896 MHz
- 4x ports for 1695-2690 MHz
- 4x ports for 3400-3800 MHz
- 2x ports for 5150-5925 MHz\*



617-896, 1695-2690, 3400-3800 and 5150-5925 MHz  
12-Port Directional Panel Antenna

\*Compliant to 789033 D02 General U-NII Test Procedures New Rules v01r04: The antenna meets current U-NII-1 requirements for gain and upper side-lobe performance. Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Sub-part E

### Electrical Specifications

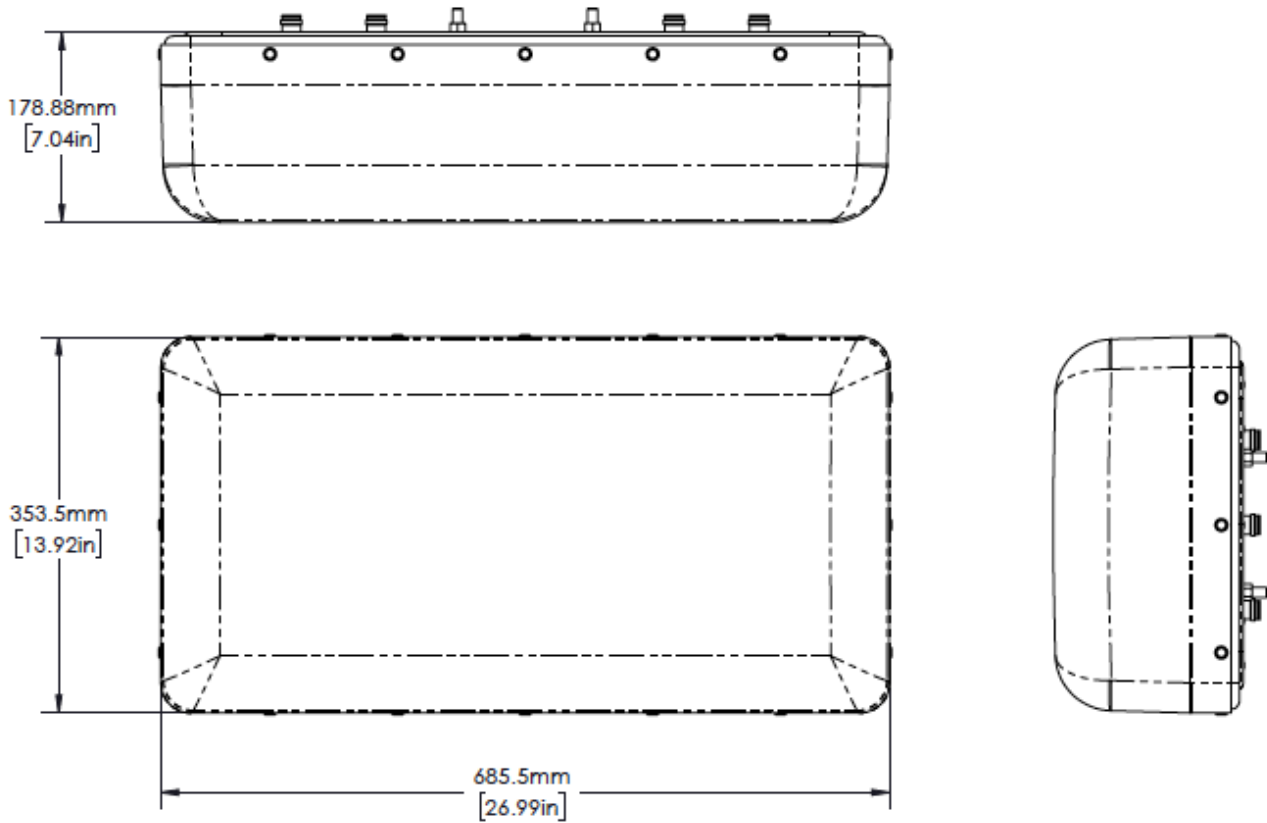
| Frequency Band [MHz]          | 617-698               | 698-806   | 806-896  | 1695-2180    | 2300-2400 | 2496-2690 | 3400-3800    | 5150-5925    |
|-------------------------------|-----------------------|-----------|----------|--------------|-----------|-----------|--------------|--------------|
| Input Connector Type          | 2x 4.3-10(F)          |           |          | 4x 4.3-10(F) |           |           | 4x 4.3-10(F) | 2x 4.3-10(F) |
| Port-to-Port Isolation (min.) | 20 dB                 |           |          |              |           |           |              |              |
| VSWR (max.) /RL (min.)        | 1.5:1 / 14.0 dB       |           |          |              |           |           |              |              |
| Impedance                     | 50 Ω                  |           |          |              |           |           |              |              |
| Polarization                  | Dual slant 45° (±45°) |           |          |              |           |           |              |              |
| Horizontal Beamwidth          | 41°                   | 37°       | 31°      | 30°          | 25°       | 22°       | 26°          | 35°          |
| Vertical Beamwidth            | 66°                   | 64°       | 56°      | 63°          | 65°       | 60°       | 59°          | 22°          |
| Gain (max.)                   | 10.3 dBi              | 11.4 dBi  | 11.7 dBi | 12.1 dBi     | 11.5 dBi  | 12.4 dBi  | 13.0 dBi     | 5.5 dBi      |
| Gain (avg.)                   | 10.0 dBi              | 10.3 dBi  | 11.1 dBi | 11.4 dBi     | 11.2 dBi  | 11.3 dBi  | 11.8 dBi     | 5.1 dBi      |
| Front-to-Back Ratio, 180°     | >30 dB                |           |          |              |           |           |              |              |
| Max Power / Port              | 100 Watts             |           |          | 100 Watts    |           |           | 50 Watts     | 1 Watt       |
| PIM @ 2x 20W                  | N/A                   | <-153 dBc |          |              |           |           | N/A          | N/A          |

### Mechanical Specifications

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Operating Temperature     | -40° to 158°F (-40° to +70°C)                     |
| Antenna Weight            | 12 lbs (5.5kg)                                    |
| Antenna Dimension (HxWxD) | 13.9" (353.5 mm) x 27" (685.5 mm) x 7" (178.9 mm) |
| Radome Material           | ASA                                               |
| RoHS                      | Compliant                                         |
| Radome Color              | Gray                                              |
| Ingress Protection        | Outdoor (IP65)                                    |
| Wind Survival Rating      | 150 mph (241 km/h)                                |

RFD#: 6367 ; Revision: R3 ; Release Date: August 17, 2020;

## Antenna Outline



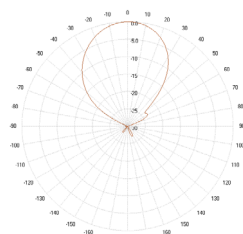
## Back Plate Port Configuration/Labeling



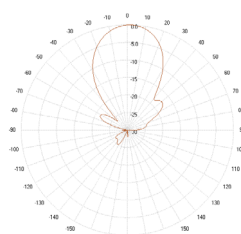
RFD#: 6367 ; Revision: R3 ; Release Date: August 17, 2020;

## Antenna Patterns

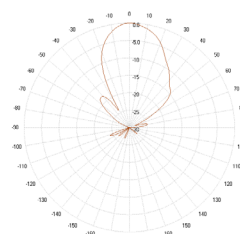
Horizontal



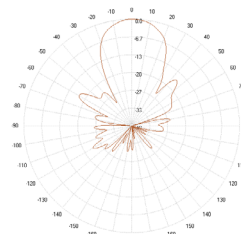
698 MHz



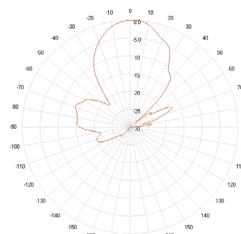
824 MHz



1990 MHz

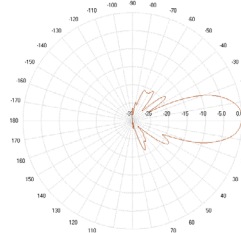
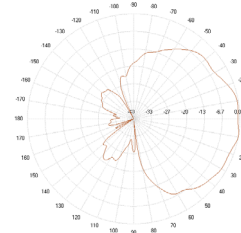
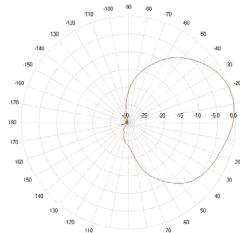
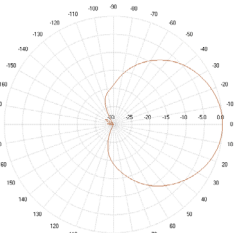
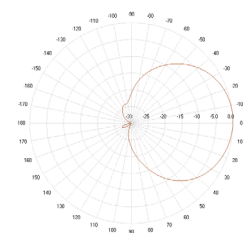


3550 MHz

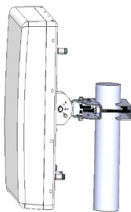


5725 MHz

Vertical



## Part Numbers, Ordering Options and Accessories

| Description                                                                                                                                                                                              | Part Number:                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Antenna with 12x 4.3-10(F) Connectors, Gray<br>(Does Not Include Mounting Bracket - Order Separately)                                                                                                    | GP2712-06367-111                                                                                    |
| Optional Items & Accessories:                                                                                                                                                                            |                                                                                                     |
| <b>Heavy Duty Mounting Bracket (wind speed of 150 mph)</b><br><br>This recommended mounting bracket offers an easy installation solution to mount the antenna to either a horizontal or a vertical pole. |  <p>62-45-09</p> |

### Mating Connector Torque:

4.3-10: 3.7 ft-lb ( 5 Nm)

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