

## ASI-20247 2X2 MIMO TVWS Panel Antenna, integrated GPS

### Product Code

ASI-20247

### Polarisation

Right Hand Circular (RHCP)  
2x2 MIMO

### Design Type

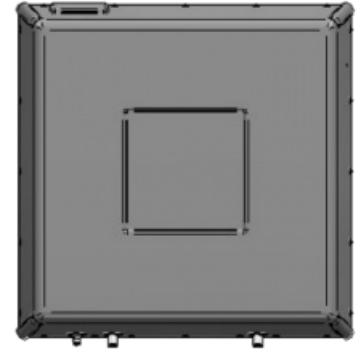
Panel / Sector

### Application Category

Base Station  
Small Cell

### RF Category

Cellular  
Sub-600 MHz



The ASI-20247 is a dual polarised (vertical and horizontal) antenna for LTE and other applications within the TV White Space (TVWS) band 470 to 698 MHz. High port to port isolation and cross polar discrimination offer excellent RF performance, and the integrated GPS antenna permits use as an all-in-one base station antenna solution.

This 11 dBi antenna is ideal for use as a LTE B71 (600 MHz) small cell. Designed and manufactured in the United States, this antenna can be modified and branded to your requirement.

- Covering TVWS bands 470 to 698 MHz
- Ideal for B71 (600 MHz) LTE
- 2X2 MIMO, V & H polarisation
- Integrated passive GPS antenna
- High port isolation and cross polar discrimination
- Heavy duty construction with IP67 ingress protection
- Two Integrated N Female connectors, one TNC Female (GPS).

### ▼ Antenna Technical Data

#### Physical Characteristics

Construction Material	Aluminium Polymer (No Further Data)	RF Connections	3
Radome Colour	Other - Grey	Environmental Rating	IP67
Dimensions	482 x 482 x 132 mm (L x W x D)	Operating Temperature	-40 °C to 65 °C
Weight	5.4400 kg	Mounting	Pole, ø 44 to 120 mm

### ▼ TVWS MIMO-1 Element

**Electrical Specifications****Mechanical Specifications**

Input Impedance	50 $\Omega$	Input Connector	N
Polarisation	Vertical (V)	Input Connector Gender	Female
Max. Input Power	100 W	Cable Series	-
PIM, 3rd Order	-	Cable Length	-

**▼ Range: 470 to 698 MHz**

Peak Gain	11.00 dBi	Azimuth Beamwidth	50°
VSWR	1.5:1	Elevation Beamwidth	50°
Radiation Efficiency	No Data	Electrical Tilt	0°
Front-to-Back Ratio	> 17 dB	Inter-Port Isolation	> 30 dB
Cross-Polar Discrimination	> 30 dB	Cross-Polar Isolation	-

**▼ TWWS MIMO-2 Element****Electrical Specifications****Mechanical Specifications**

Input Impedance	50 $\Omega$	Input Connector	N
Polarisation	Horizontal (H)	Input Connector Gender	Female
Max. Input Power	100 W	Cable Series	-
PIM, 3rd Order	-	Cable Length	-

**▼ Range: 470 to 698 MHz**

Peak Gain	11.00 dBi	Azimuth Beamwidth	50°
VSWR	1.5:1	Elevation Beamwidth	50°
Radiation Efficiency	No Data	Electrical Tilt	0°
Front-to-Back Ratio	> 17 dB	Inter-Port Isolation	> 30 dB
Cross-Polar Discrimination	> 30 dB	Cross-Polar Isolation	-

**▼ GNSS Specifications**

### Electrical Specifications

### Mechanical Specifications

Input Impedance	50 $\Omega$	Input Connector	TNC
Polarisation	Right Hand Circular (RHCP)	Input Connector Gender	Female
DC Input Power	Vdc	Cable Series	-
Power Consumption	-	Cable Length	-

### ▶ GPS Specifications

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