

# VenU<sup>®</sup> Dual-Polarized Directional Panel Antennas

Cellular Antennas - Panel Antennas

FP-Series



## Description

Dual-polarized directional antennas for efficient and stable performance for indoor and outdoor industrial wireless applications

## Technologies

- 5G Cellular

## Features

- Aesthetically pleasing, low-profile housing
- Panel mounted N Female connector
- Meets important compliance standards – UL 94 HB ASA radome and PC board conform to UL's high flame retardant ratings
- Fully adjustable mounting bracket for pipe or wall mount installations



FPM-1001 Mount

## VenU® Dual-Polarized Directional Panel Antenna

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The VenU® FP Series of directional panel antennas is designed to cover frequencies used in industrial wireless applications and to obtain maximum gain with an attractive, low-profile package. These models provide efficient and stable performance across the band and can be mounted indoors or outdoors.

#### Features

- Meets important compliance standards – UL 94 HB ASA radome and PC board conform to UL's high flame retardant rating; meets stringent building code requirements
- Low-profile housing – For environments where aesthetic considerations are important
- Ease of installation and connection – Fully adjustable mounting bracket for pipe or wall mount installations; Panel mounted type N female connector

#### Applications

- Indoor and outdoor industrial wireless applications

#### Certifications



## SPECIFICATIONS

# VenU® Dual-Polarized Directional Panel Antennas

## Cellular Antennas - Panel Antennas

### Standard Configuration

| Model Number | Connectors                               | Mount Type                                                                                              |
|--------------|------------------------------------------|---------------------------------------------------------------------------------------------------------|
| FP1800-15DP  | 2 x Type N Female Panel Mount Connectors | FPM-1001 fully adjustable mount is included. Suitable for wall or mast mount installations (all models) |
| FP2327-18DP  |                                          |                                                                                                         |
| FP3637-18DP  |                                          |                                                                                                         |
| FP4959-22DP  |                                          |                                                                                                         |

### Electrical Specifications – RF Antenna

| Model Number | Frequency Ranges | Gain           | VSWR                         | Azimuth Half Power Beamwidth | Elevation Half Power Beamwidth | Front to Back Ratio | Average Power | Nominal Impedance | Polarization                   |
|--------------|------------------|----------------|------------------------------|------------------------------|--------------------------------|---------------------|---------------|-------------------|--------------------------------|
| FP1800-15DP  | 1.80-1.83 GHz    | 15 dBi ±1 dB   | 1.5:1 typical, 2.0:1 maximum | 22°                          | 22°                            | > 25 dB             | 20 watts      | 50 ohms           | Dual Linear, H/V or ±45° slant |
| FP2327-18DP  | 2.30-2.70 GHz    | 17.5 dBi ±1 dB | 1.5:1 typical, 2.0:1 maximum | 20°                          | 20°                            | > 27 dB             |               |                   |                                |
| FP3637-18DP  | 3.30-3.80 GHz    | 18.5 dBi ±1 dB | 1.7:1 typical, 2.0:1 maximum | 17°                          | 17°                            | > 30 dB             |               |                   |                                |
| FP4959-22DP  | 4.9-5.9 GHz      | 22.5 dBi ±1 dB | 1.5:1 typical, 2.0:1 maximum | 9°                           | 9°                             | > 29 dB             |               |                   |                                |

### Mechanical and Environmental Specifications

#### VenU® FP Series Antennas

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Dimensions        | 14.5" x 14.5" x 1.57" in<br>(368 x 368 x 40 mm) |
| Weight            | 3.5 lbs (1.6 kg)                                |
| Housing Material  | UL 94 HB ASA radome                             |
| Rated Wind        | 125 mph                                         |
| Temperature Range | -40°C to +85°C                                  |

**CONTACT US**

**For more information about  
this product contact your  
sales representative or visit  
> [pctel.com/antenna-products](https://pctel.com/antenna-products)**

### **Solving Complex Wireless Challenges**

PCTEL, an Amphenol company, is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for decades, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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