

### Product Overview

The IgniteNet™ Fusion™ Dish is a high performance .6m dish for the 2.4GHz and 5GHz unlicensed bands. Its reimagined design is centered around 3 key ingredients: simplicity, performance, and integration. For simplicity the Fusion™ Dish requires only one tool for assembly and integration. Also the bracket is thoughtfully designed as two pieces to allow for easy installation. For improved performance, the Fusion™ Dish features a redesigned waveguide to enable low-loss radio connections, while simplifying the installation at the same time. Easy integration is further achieved in the innovative pigtail and weather hood feature.

### Key Features and Benefits

#### Innovative Radio Connections

The Fusion™ Dish features not only the standard N-type connection option but also is available with RPSMA pigtails + weather hood as well as with Fusion™ mating, a new, super simple antenna/radio mating system developed by IgniteNet™.

#### Dual Polarity or Dual Slant?

The Fusion™ Dish is designed to support both dual polarity (H/V) as well as dual slant operation depending on assembly. Now one dish can handle both system types!

#### Versatile, Robust Mounting Design

The Fusion™ Dish innovative mounting design allows for poles varying in size from 5 to 11.4cm (2 to 4.5in.) in diameter. In addition, adjustment from +/-30° are made simple and easy.

### Product Variants



FD5-30R



FD5-30N



FD5-30F

### Features

#### RF PERFORMANCE

- ✓ Frequency Range
  - 5.1 - 5.9GHz (FD5)
  - 2.4 - 2.5GHz (FD2)
- ✓ Antenna Gain
  - 30dBi (FD5)
  - 24dBi (FD2)
- ✓ Polarization
  - Dual Polarity H/V or Dual Slant +/-45°
- ✓ 3dB Beamwidth
  - 6 degrees (FD5)
  - 8 degrees (FD2)
- ✓ VSWR
  - 1.5:1 Typical
- ✓ Port to Port Isolation
  - 35dB min.
- ✓ Front to Back Ratio
  - >30dB
- ✓ Cross Polarization
  - >30dB
- ✓ Impedance
  - 50 ohm

#### OPERATING ENVIRONMENT

- ✓ Operating Temperature: -45C° to +70C°
- ✓ Store Temperature: -45C° to +70C°
- ✓ Operating Humidity: 10 to 90% non-condensing (RH)
- ✓ Meets IP65 Weather Rating

#### DIMENSIONS (L x W x H)

- ✓ 280 x 90 x 50 mm

#### WEIGHT

- ✓ 10 kg

#### WIND SURVIVABILITY

- ✓ 201 kph

#### WIND LOADING

- ✓ 80 kg (53 kg with radome)

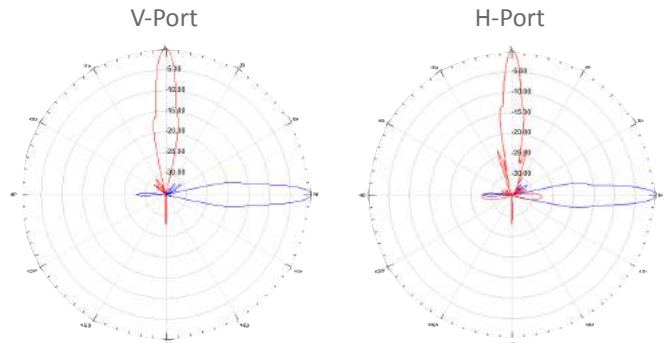
#### POLE MOUNT RANGE

- ✓ 5.0 - 11.4 cm (2 - 4.5 in.)

#### REGULATORY / STANDARDS COMPLIANCE

- ✓ FCC/IC
- ✓ CE

#### ANTENNA PATTERNS



### Ordering Information

Part Number	Description
FD5-30N	5GHz, 30dBi, .6m, Dual Type-N Connectors
FD5-30R	5GHz, 30dBi, .6m, Dual Type-RPSMA Pigtailed with Weather Hood
FD5-30F	5GHz, 30dBi, .6m, EZ-Fusion™ Type Mating
FD2-24N	2.4GHz, 24dBi, .6m, Dual Type-N Connectors
FD2-24R	2.4GHz, 24dBi, .6m, Dual Type-RPSMA Pigtailed with Weather Hood
FD2-24F	2.4GHz, 24dBi, .6m, EZ-Fusion™ Type Mating

### Contact



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