



### Product Overview

The IgniteNet™ Fusion™ Sector family is a high performance series of sector antennas for the 2.4GHz and 5GHz unlicensed bands. Complete with models covering both 90° and 120°, the Fusion™ Sector is also available in a dual-band concurrent option, further reducing operating costs in many applications. A versatile mounting system allows for easy mounting on a variety of structures including angled tower legs. Also easy integration is achieved with both the “R” and “F” models that feature simplified RF connections as well as an innovative weather hood to protect against harsh environments.

### Key Features and Benefits

#### Innovative Radio Connections

The Fusion™ Sector 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™.

#### High Performance for Challenging Environments

The Fusion™ Sector is designed with extremely high front to back ratio to allow for minimized collocation interference. Also, a high cross polarization discrimination (XPD) ensures the best connections possible.

#### True, Optimized Coverage

The Fusion™ Sector beamwidths are all specified at the 3dB beamwidth ensuring solid connections and longer distances even at the edges of the coverage.

### Product Variants



FSD-R

FS-N

FS-R

FS-F

### Features

#### RF PERFORMANCE

- ✓ Frequency Range
  - 5.1 - 5.9GHz
  - 2.4 - 2.5GHz
- ✓ Antenna Gain
  - 17dBi (5GHz)
  - 14dBi (2.4GHz)
- ✓ Polarization
  - Dual Polarity H/V (both bands)
- ✓ 3dB Beamwidth
  - 90 degrees
- ✓ VSWR
  - 1.5:1 Typical
- ✓ Port to Port Isolation
  - 25dB min.
- ✓ Front to Back Ratio
  - >25dB
- ✓ Cross Polarization
  - >30dB
- ✓ Impedance
  - 50 ohm

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

- ✓ 700 x 150 mm

#### WEIGHT

- ✓ TBD

#### WIND SURVIVABILITY

- ✓ 201 kph

#### WIND LOADING

- ✓ 80 kg (53 kg with radome)

#### POLE MOUNT RANGE

- ✓ 5.0 - 7.5 cm (2 - 3 in.)

#### REGULATORY / STANDARDS COMPLIANCE

- ✓ FCC/IC
- ✓ CE

#### OPERATING ENVIRONMENT

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

#### ANTENNA PATTERNS

- ✓ TBD



All Models    FSD-1417N-90    FSD-1417R-90    FSD-1417F-90

### Ordering Information

Part Number	Description
FSD-1417N-90	2.4GHz 14dBi + 5GHz 17dBi, 90°, 4x Type-N Connectors
FSD-1417R-90	2.4GHz 14dBi + 5GHz 17dBi, 90°, 4x RPSMA Pigtailed w/ Dual Weather Hoods
FSD-1417F-90	2.4GHz 14dBi + 5GHz 17dBi, 90°, EZ-Fusion™ Type Mating

### Contact



**Worldwide**  
 20 Mason  
 Irvine, CA 92618  
 USA  
[sales@ignitenet.com](mailto:sales@ignitenet.com)

**Asia**  
 No. 1 Creation Road III,  
 Hsinchu Science Park,  
 30077, Taiwan, R.O.C.  
[sales@ignitenet.com](mailto:sales@ignitenet.com)

### Features

#### RF PERFORMANCE

- ✓ Frequency Range  
5.1 - 5.9GHz
- ✓ Antenna Gain  
20dBi (90°)  
19dBi (120°)
- ✓ Polarization  
Dual Polarity H/V (both bands)
- ✓ 3dB Beamwidth  
90 and 120 degrees
- ✓ VSWR  
1.5:1 Typical
- ✓ Port to Port Isolation  
25dB min.
- ✓ Front to Back Ratio  
>25dB
- ✓ Cross Polarization  
>30dB
- ✓ Impedance  
50 ohm



All Models

FS5-20N-90  
FS5-19N-120

FS5-20R-90  
FS5-19R-120

FS5-20F-90  
FS5-19F-120

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

- ✓ 700 x 150 mm

#### WEIGHT

- ✓ TBD

#### WIND SURVIVABILITY

- ✓ 201 kph

#### WIND LOADING

- ✓ 80 kg (53 kg with radome)

#### POLE MOUNT RANGE

- ✓ 5.0 - 7.5 cm (2 - 3 in.)

#### REGULATORY / STANDARDS COMPLIANCE

- ✓ FCC/IC
- ✓ CE

#### OPERATING ENVIRONMENT

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

#### ANTENNA PATTERNS

- ✓ TBD

### Ordering Information

Part Number	Description
FS5-20N-90	5GHz, 90 deg., 20dBi, Dual Type-N Connectors
FS5-20R-90	5GHz, 90 deg., 20dBi, Dual RPSMA Pigtailed with Weather Hood
FS5-20F-90	5GHz, 90 deg., 20dBi, EZ Fusion™ Type Mating
FS5-19N-120	5GHz, 120 deg., 19dBi, Dual Type-N Connectors
FS5-19R-120	5GHz, 120 deg., 19dBi, Dual RPSMA Pigtailed with Weather Hood
FS5-19F-120	5GHz, 120 deg., 19dBi, EZ Fusion™ Type Mating

### Features

#### RF PERFORMANCE

- ✓ Frequency Range  
5.1 - 5.9GHz
- ✓ Antenna Gain  
17dBi (90°)  
16dBi (120°)
- ✓ Polarization  
Dual Polarity H/V (both bands)
- ✓ 3dB Beamwidth  
90 and 120 degrees
- ✓ VSWR  
1.5:1 Typical
- ✓ Port to Port Isolation  
20dB min.
- ✓ Front to Back Ratio  
>25dB
- ✓ Cross Polarization  
>30dB
- ✓ Impedance  
50 ohm

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

- ✓ 300 x 120 mm

#### WEIGHT

- ✓ TBD

#### WIND SURVIVABILITY

- ✓ 201 kph

#### WIND LOADING

- ✓ 80 kg (53 kg with radome)

#### POLE MOUNT RANGE

- ✓ 5.0 - 7.5 cm (2 - 3 in.)

#### REGULATORY / STANDARDS COMPLIANCE

- ✓ FCC/IC
- ✓ CE

#### OPERATING ENVIRONMENT

- ✓ Operating Temperature: -45C° to +70C°
- ✓ Store Temperature: -45C° to +70C°
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#### ANTENNA PATTERNS

- ✓ TBD



All Models

FS5-17N-90  
FS5-16N-120

FS5-17R-90  
FS5-16R-120

FS5-17F-90  
FS5-16F-120

### Ordering Information

Part Number	Description
FS5-17N-90	5GHz, 90 deg., 17dBi, Dual Type-N Connectors
FS5-17R-90	5GHz, 90 deg., 17dBi, Dual RPSMA Pigtailed with Weather Hood
FS5-17F-90	5GHz, 90 deg., 17dBi, EZ Fusion™ Type Mating
FS5-16N-120	5GHz, 120 deg., 16dBi, Dual Type-N Connectors
FS5-16R-120	5GHz, 120 deg., 16dBi, Dual RPSMA Pigtailed with Weather Hood
FS5-16F-120	5GHz, 120 deg., 16dBi, EZ Fusion™ Type Mating

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Irvine, CA 92618  
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### Features

#### RF PERFORMANCE

- ✓ Frequency Range  
2.4 - 2.5GHz
- ✓ Antenna Gain  
17dBi (90°)  
16dBi (120°)
- ✓ Polarization  
Dual Polarity H/V (both bands)
- ✓ 3dB Beamwidth  
90 and 120 degrees
- ✓ VSWR  
1.5:1 Typical
- ✓ Port to Port Isolation  
20dB min.
- ✓ Front to Back Ratio  
>25dB
- ✓ Cross Polarization  
>30dB
- ✓ Impedance  
50 ohm



All Models

FS2-17N-90  
FS2-16N-120

FS2-17R-90  
FS2-16R-120

FS2-17F-90  
FS2-16F-120

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

- ✓ 700 x 150 mm

#### WEIGHT

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#### ANTENNA PATTERNS

- ✓ TBD

### Ordering Information

Part Number	Description
FS2-17N-90	2.4GHz, 90 deg., 17dBi, Dual Type-N Connectors
FS2-17R-90	2.4GHz, 90 deg., 17dBi, Dual RPSMA Pigtailed with Weather Hood
FS2-17F-90	2.4GHz, 90 deg., 17dBi, EZ Fusion™ Type Mating
FS2-16N-120	2.4GHz, 120 deg., 16dBi, Dual Type-N Connectors
FS2-16R-120	2.4GHz, 120 deg., 16dBi, Dual RPSMA Pigtailed with Weather Hood
FS2-16F-120	2.4GHz, 120 deg., 16dBi, EZ Fusion™ Type Mating

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