

FM3100ENDO-DISH-29

4.9-6.0GHz Wideband Dual Polarized Parabolic Reflector Antenna with Built-in Radome

The FM3100ENDO-DISH-29 has been designed to work in conjunction with the Fluidmesh 3100 ENDO for long range backhauling applications. The antenna comes with a pole mounting kit, a micro fine elevation and azimuth adjustment kit as well as a built-in radome.



Features

- Two feet diameter
- Radome comes standard and installed
- Rear mounted feed – radome never has to be removed
- Linear, continuous polarization adjustment
- Fine adjustment mechanism for elevation and azimuth
- Assembled and attached offset mount allows easy access to connector
- Double saddle mounting brackets will accommodate pipe attachments ranging from 1.625" to 4.5" OD
- Robust mounting structure. Three point mount attachment improves stability and prevents reflector distortion and mechanical oscillation
- UPS shippable

Electrical Specifications

Model	Frequency Range	Nominal Gain (+/- 0.5 dB)	3 dB Beamwidth, Nominal
FM3100ENDO-DISH-29	4.9-6.0 GHz	27.5 dBi @ 4.9 GHz 28.1 dBi at 5.15 GHz 29.4 dBi at 5.875 GHz	6°

Mechanical Specifications

Model	Wind Survival with 1/2" of radial ice	Temperature Range	Diameter
FM3100ENDO-DISH-29	125 mph	-40°C to +80°C	26" (66 cm)

FM3100 ENDO with 29 dBi Dish

Throughput (Mbps)	Max Range (miles)	Max Range (Km)
100	10	16
50	15	24
30	18	28
20	22	35
15	30	50

Technical Data

General Specifications:
Prime Focus Parabolic Reflector Antenna

Maximum Power:
25 watts

Nominal Impedance:
50 ohms

SWR/return loss:
< 1.5 / >13.9 dB for 5.15-6.0 GHz operation
< 1.7 / >12 dB for 4.9-5.15 GHz operation

Polarization:
Dual linear, continuously adjustable

Front-to-back Ratio:
36 dB

Interport Isolation:
> 35 dB

Cross Polarization Discrimination:
> 30 dB

Interface Connector:
Type N female

Mount Interface:
Accommodates 1.625" to 4.5" pipe OD