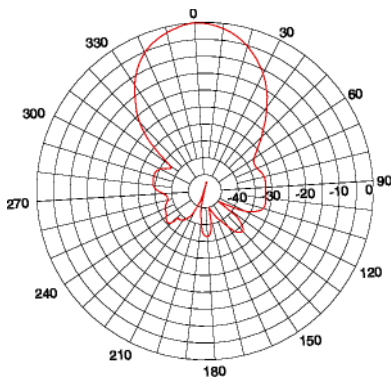


UHS Series **UltraFlex[®] Hub Sector** **MMDS and ISM Base Station Antennas**

The Ultraflex[®] UHS Series MMDS and ISM base station antennas are highly discriminative antennas for use in fixed broadband wireless systems. These systems typically utilize cellularization and sectorization techniques to meet the bandwidth demands of user specific data and telephony content. A key feature with the UHS Series antennas is the side and back lobe attenuation. The rejection of \sim -30 dB allows for maximum frequency reuse of limited available bandwidth.

The mount attaches to a vertical tower pipe of 48 to 115 mm diameter (1.9" to 4.5"). The mount also provides adjustment ranges \pm 50° (\pm 22° fine) elevation \pm 180° (\pm 15° fine) azimuth.



MDS Sector

Gain = 14.41 dBi
Frequency = 2.15 GHz
10 dB BW = 55.3 Degrees
dB BW = 29.7 Degrees

Features

- MDS, ISM, MMDS Versions
- 30° -3dB beam width
- >-30 dB lobe suppression
- 1.9" to 4.5"

Conifer Wireless
8220 East Gelding Drive
Scottsdale, AZ 85260, USA
Phone 480-315-1501
www.coniferusa.com



Product Specifications

Specifications for UHS Ultraflex® Hub Sector MMDS and ISM Base Station Antennas

Electrical Specifications

Gain, <i>dBi</i>	15 ± 1
Gain flatness across band, <i>dB</i>	±0.5
Polarization isolation, <i>dB</i>	>25
Azimuth directivity, <i>degree</i>	29 ± 0.5*
Elevation directivity, <i>degree</i>	28 ± 1
Maximum side lobe, <i>dB</i>	-30
Impedance, <i>ohm</i>	50
Return loss, <i>dB</i>	≤18
VSWR	1.4:1
Maximum power, <i>watts</i>	50

Mechanical Specifications

Output connector	"N" type male
Mounting, <i>in (mm)</i>	1.9–4.5 (48 x 114) OD pipe
Fine elevation adjustment, <i>degree</i>	±22
Fine azimuth adjustment, <i>degree</i>	±15
Operational wind load, <i>mph</i>	75
Survivable wind load	125 mph, 0.1° deflection
Dimensions, <i>in (mm)</i>	3.5 x 16.125 x 16.125 (89 x 410 x 410)
Weight – Antenna, <i>lb (kg)</i>	6.8 (3.08)
Weight – Mount, <i>lb (kg)</i>	12.3 (5.58)

Ordering Information

<u>Type Number</u>	<u>Polarity</u>	<u>Frequency Band, MHz</u>
QV-2156-030NM	Vertical	2150–2162
QH-2156-030NM	Horizontal	2150–2162
QV-2450-030NM	Vertical	2400–2500
QH-2450-030NM	Horizontal	2400–2500
QV-2593-030NM	Vertical	2500–2686
QH-2593-030NM	Horizontal	2500–2686

All designs, specifications and availabilities of products and services presented in this bulletin are subject to change without notice

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