

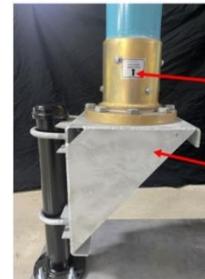
# 800 MHz Antennas - MAGNUM True Omni Low-PIM/Hi-PIP, 11.5 dBd Gain

## Models: DS8M12P36U-Series

Specifications	
Design Type	True Corporate Feed "True Omni" model
Frequency Range	806-869 MHz
Passive Intermod – 3 <sup>rd</sup> -order PIM	-150 dBc
Bandwidth	63 MHz
Gain	13.6 dBi / 11.5 dBd
Configuration	Single antenna
Beam Tilt (electrical downtilt)	(x) = - or 3 degrees
Horizontal Beamwidth (H-Plane), typ.	Omnidirectional
Vertical Beamwidth (E-Plane), typ.	3.5°
Impedance	50 Oms
Null fill pattern features	Included
VSWR / Return Loss	<1.4:1 / 14 dB (min.)
Average Power Rating	600 W
Peak Instantaneous Power	25 kW
Polarization	Vertical
Lightning Protection	Direct Ground
Connector DS8M12P36U(x)D and DS8M12P31U(x)D DS8M12P36U(x)M and DS8M12P31U(x)M	7/16 DIN (F) 4.3-10 (F)
Equivalent Flat-Plate Area	6.9 sq. ft.
Lateral Wind load Thrust @100mph	247 bf.
Rated Wind Speed	155 mph (without ice)
Total Length, antenna only Add for Mounting Kit: 1.3 ft.	19 feet
Radome O.D.	6.0 inches
Base O.D.	6.5 inches
Mounting design	Metal flange base see detail. (8 x 3/4" bolts)
Radome color	Horizon Blue
Weight, antenna only (approx.)	90 lbs.
With DSH-MAG1HD mount, included	144 lbs.
Shipping Weight (approx.)	Consult factory
Mounting kit, included	P/N DSH-MAG1HD H.D. pipe mount kit for 4" vertical members
Invertibility	Inverted models available. See Ordering Information below.
<b>Ordering Information</b> DS8M12P36U(x)D – 7/16 DIN Connector DS8M12P36U(x)M – 4.3-10 Connector	1. Replace (x) in the model number with Beam Tilt options.
<b>Inverted Models:</b> DS8M12P31U(x)D – 7/16 DIN Connector DS8M12P31U(x)M – 4.3-10 Connector	2. "-" in the beam-tilt options represents 0.75° down-tilt.

### Features and Benefits

- Omnidirectional coverage in a heavy-duty package maximizes performance and practically eliminates tip deflection.
- Tested to stringent Peak Instantaneous Power (PIP) levels of 25 KW using dbSpectra's multi-channel P25 PIP test bed. High PIP level is demanded by today's digital systems.
- True Corporate Feed Array – provides for excellent gain and pattern consistency across a wider frequency range.
- PIM Rated Design – better than -150 dBc.
- Excellent Lightning Protection – brass tip feeds heavy internal conductor DC ground.
- Inverted models available.



Maximum Gain  
Direction Indicator  
for Directional  
Pattern Magnums

Mounting Kit  
(Included)



### Radiation Patterns

Plots 5 dB/Div

