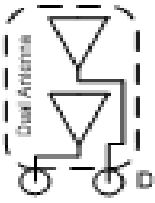
UHF Antenna – Dual Omnidirectional, Low-PIM/Hi-PIP, 3.5 dBd Gain

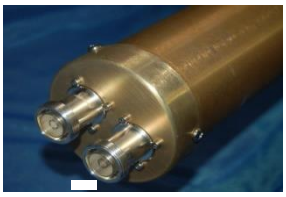
Model - DS4A03P36D-Series Antennas

Specifications	
Design Type	True Corporate Feed / Dual
Frequency Range	406-436 MHz
Passive Intermodulation – PIM (2 x 20W sources)	-150 dBc, 3rd Order
Bandwidth	30 MHz
Gain (average over BW)	3.4 dBd – Top antenna 3.5 dBd – Bottom antenna
Isolation, min.	40 dB
Beam Tilt (electrical down-tilt)	(x) = - or 6 degrees
Vertical Beamwidth (E-Plane)	26°
Impedance	50 Ohms
VSWR / Return Loss	1.5:1 / 14 dB (min.)
Average Power Rating	500 W (each antenna)
Peak Instantaneous Power	25 kW (each antenna)
Polarization	Vertical
Lightning Protection	Direct Ground
Connector	D = 7/16 DIN (F) × 2 M = 4.3-10 (F) × 2
Equivalent Flat-Plate Area	2.7 sq. ft.
Lateral Wind-load Thrust	110 lbf. @100 mph
Rated Wind Speed	175 mph (without ice) 149 mph (with ½" radial ice)
Total Length	15.8 feet
Mounting Mast OD and Length	3.5 inches OD x 35 inches
Mounting Hardware (included)	DSH3V4N for Maximum 4" pipe
Top Sway Brace (Consider when side mounting)	DSH2H3S (order separately) Includes DS2H3R
Radome color	Horizon Blue
Radome O.D.	3.0 inches
Weight (approx.)	59 lbs. (approx.)
Shipping Weight (approx.) with mounting hardware	80 lbs. (approx.)
Inverted mounting of P36D models *(Move drain plug from tip cap to connector plate)*	Standard 0° beam-tilt antennas can be inverted but patterns are optimized for upright mounting
Ordering Information **DS4A03P36D(x)(y)** UHF Dual Antenna **DS4A03P3ID(x)(y)** Inverted UHF Dual Antenna	• (x) = Beam Tilt selection 0° beam-tilt = "-" • (y) = Connector type D = 7/16 DIN (F) M = 4.3-10 (F)



"two antennas in one"

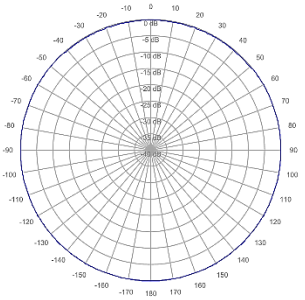




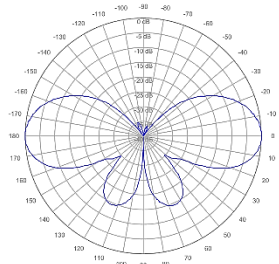
Features and Benefits:

- Dual-antenna configuration saves overall cost – enables two antennas in one tower slot.
- High RF isolation between the independent antennas provides good performance and predictable interference protection.
- 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.
- PIM Rated Design – better than -150 dBc.

Radiation Patterns Plots 5 dB/Div



Horizontal



Vertical (No Tilt)

Vertical (6° Tilt)

