



Available as a special order.  
Please see similar antenna V7CAP-465.

## DUO4-7865

*Directing our energies for you.*

Dual Band Dipole

(old DUO1518-7865)



78 & 65 Deg. Azimuth Beams  
15 & 7 Deg. Elevation Beams  
14.0 & 17.0 dBi Gain

- PCS & Cellular in One Package
- Independent Control of Electrical Beam Downtilt
- High Power Handling Capability
- Anti-Corrosion Design for Superb IM Performance
- Optional Internal Dual Band Combiner



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# DUO4-7865

## Electrical Specifications

## Cellular

## PCS

Frequency Range	824-896 MHz	1850-1990 MHz
Gain	14.0 dBi	17.0 dBi
Electrical Downtilt Options	0, 2, 4 or 6 Degrees	0, 2, 4 or 6 Degrees
VSWR	1.35:1 Maximum	1.35:1 Maximum
VSWR (with -i option)	1.50:1 Maximum	1.50:1 Maximum
Front-to-Back at Horizon	> 27 dB	> 30 dB
Upper Side Lobe Suppression	< -18 dB	< -18 dB
Elevation Beam (3-dB Points)	15 Degrees	7 Degrees
Azimuth Beam (3-dB Points)	78 Degrees	65 Degrees
Polarization	Vertical	Vertical
Impedance	50 Ohms	50 Ohms
Power Input Rating	500 CW	250 CW
Intermodulation	typ. -150 dBc (2x20W)	typ. -150 dBc (2x20W)
Port to Port Isolation	>30 dB	>30 dB

## Mechanical Specifications

Input Connectors (female)	Two Back Mounted 7/16 DIN (Silver Finish)
Antenna Dimensions (LxWxD)	48.4 x 14.5 x 9 Inches (10.7" deep with option 'i')
*Antenna Weight	28 lbs
Bracket Weight	33.0 lbs
Lightning Protection	13.2 lbs
RF Distribution	Direct Ground
Radome	Cellular: Silver Plated Brass
Weatherability	PCS: Printed Microstrip Substrate
Radome Water Absorption	Ultra High-Strength Luran
Environmental	UV Stabilized, ASTM D1925
Wind Survival	ASTM D570, 0.45%
Front Wind Load at 100 mph	MIL-STD-810E
Front Flat Plate Equivalent	150 mph
Mounting Brackets	127 lbs
Mechanical Downtilt Range	2.59 sq-ft. (c=2)
Clamps/Bolts	Fits 2.5 to 3 Inch Schedule 40 Pipe
	0-12 Degrees in 1 Degree Increments
	Hot Dip Galvanized Steel/Stainless Steel

## Ordering Information

<u>Model</u>	<u>Options</u>
DUO4-7865-xy	x=Electrical Downtilt at 800 MHz in Degrees (0, 2, 4 or 6)
	y=Electrical Downtilt at 1900 MHz in Degrees (0, 2, 4 or 6)
DUO4-7865-xyi	i=Dual Band Combiner included as an internal device

\*Antenna Weight may vary slightly with options such as back or bottom connector and integrated diplexers.

