

DCS/PCS/UMTS Directional

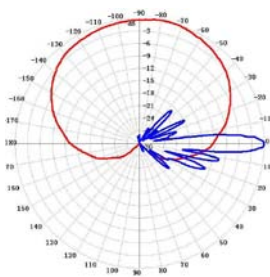
Adjustable Electrical Downtilt Antenna

Frequency range	1710—2170MHz
Polarization	X
Gain	16 dBi
Horizontal beamwidth	90°
Adjustable electrical downtilt	0° — 10°

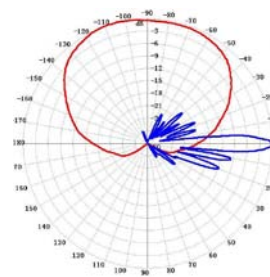
Electrical Model: CR-DS40X163A10

Frequency range (MHz)	1710-1880	1880-1920	1920-2170
Polarization (°)	±45		
Gain (dBi)	15.7	16	16.3
Beam width (Horizontal) (°)	93	90	87
Beam width (Vertical) (°)	7	6.5	6
Front-to-back ratio (dB)	≥23		
Cross-polar ratio at 0° (dB)	≥15		
Cross-polar ratio at ±60° (dB)	≥10		
First upper sidelobe level (dB)	≤-16		
Electrical downtilt (°)	0-10		
Impedance (Ω)	50		
VSWR	≤1.4		
Isolation (dB)	≥30		
IM3 (2×20W) (dBm)	≤-107		
Max. power (W)	100		
Lightning Protection	DC grounded		

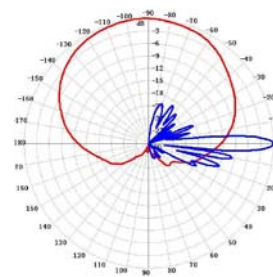
Patterns



1710MHz



1880MHz



2170MHz

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Mechanical

Input	2×7/16 DIN Female
Antenna sizes (L/W/H)(mm)	1355×168×90
Packing sizes (L/W/H)(mm)	1540×235×170
Antenna weight (kg)	7.5
Mounting bracket weight (kg)	2
Packing weight (kg)	11
Radome material	FRP
Color (PANTONE)	Gray 2U
Mounting pipe dia. (mm)	50 ~ 110

Environmental

Operating temperature (°C)	-40 ~ +60
RH % (°C)	≤95 (30)
Max. wind velocity (km/h)	210

