



## COMSTAR MESH DISH

Specification	ST-7	ST-10	ST-12	ST-15	ZR-16	ZR-20
<b>Type</b>	4 section	8 section	8 section	12 section	16 section	20 section
<b>Operating Freq.</b>	1 to 13 GHz	1 to 13 GHz	1 to 13 GHz	1 to 13 GHz	1 to 13 GHz	1 to 13 GHz
<b>Diameter</b>	2.3m (90")	3.0m (120")	3.69m (145")	4.5m (177")	4.9m (192")	6.1m (240")
<b>Reflective Material</b>	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
<b>Mesh Thickness</b>	C / Ku Mesh 0.7mm ±0.05mm	C / Ku Mesh 0.7mm ±0.05mm	C / Ku Mesh 0.7mm ±0.05mm	C / Ku Mesh 0.7mm ±0.05mm	C / Ku Mesh 0.7mm ±0.05mm	C / Ku Mesh 0.7mm ±0.05mm
<b>Mounting</b>	Polar Mount	Polar Mount	Polar Mount	Polar Mount	Fixed Mount	Fixed Mount
<b>F/D Ratio</b>	0.4	0.38	0.4	0.4	0.4	0.4
<b>Feed</b>	Prime focus Quad Feed Support	Prime focus Quad Feed Support	Prime focus Quad Feed Support	Prime focus Quad Feed Support	Prime focus Quad Feed Support	Prime focus Quad Feed Support
<b>Pole Size (O.D)</b>	89mm (3.5")	89mm (3.5")	89mm (3.5")	127 mm (5")	140mm (5.5")	140mm (5.5")
<b>Focal Length</b>	915mm (36")	1160mm (45 7/8")	1460mm (57 1/2")	1800mm (70 7/8")	1960mm (77")	2440mm (96")
<b>Gain at 4.2 GHz</b>	38.3 dBi	40.3 dBi	42.3 dBi	43.9 dBi	44.5 dBi	46.0 dBi
<b>Gain at 12.2 GHz</b>	46.5 dBi	47.8 dBi	51.2 dBi	50.8 dBi	52 dBi	53.1 dBi
<b>First Side Lobe (dB)</b>	≤-16	≤-18	≤-18	≤-16	≤-16	≤-16
<b>EL Travel Range</b>	0~90°	0~90°	0~90°	0~90°	0~90°	0~90°
<b>AL Travel Range</b>	0~360°	0~360°	0~360°	0~360°	0~360°	0~360°
<b>Withstand Wind (Operational)</b>	110km/h	110km/h	110km/h	110km/h	110km/h	110km/h
<b>Weight</b>						
<b>Reflector - Net Weight</b>	11.5kg	20.5kg	32kg	39kg	55 kg	110 kg
<b>Reflector - Gross Weight</b>	13.5kg	23.5kg	37kg	45kg	136 kg	206 kg
<b>Mount - Net Weight</b>	21kg	28.5kg	29kg	70kg	88 kg	115kg
<b>Mount - Gross Weight</b>	25kg	32kg	36kg	80kg	113kg	135kg
<b>Feedsupport - Net Weight</b>	1.8kg	2.5kg	3kg	21kg		
<b>Feedsupport - Gross Weight</b>	2kg	3kg	3.5kg	23kg		
<b>Packing Size:</b>						
<b>Reflector</b>	1.17 x 1.17 x 0.13	(1.26+0.065)/2 x 1.53 x 0.25	(1.5+0.09)/2 x 1.9 x 0.23	(1.2+0.07)/2 x 2.53 x 0.5	2.75 x 1.12 x 0.34 m	3.4 x 1.12 x 0.46 m
<b>Mount</b>	0.66 x 0.62 x 0.23	0.88 x 0.88 x 0.18	0.88 x 0.88 x 0.24	1.2 x 1.2 x 0.35	1.24 x 0.77 x 0.53 m	1.24 x 0.77 x 0.53 m
<b>Support</b>	1.3 x 0.05 x 0.05	1.7 x 0.05 x 0.05	2.07 x 0.05 x 0.06	2.45 x 0.10 x 0.14		
<b>Total Volume:</b>						
<b>Reflector</b>	0.203m <sup>3</sup>	0.25m <sup>3</sup>	0.453m <sup>3</sup>	0.714m <sup>3</sup>	1.05m <sup>3</sup>	1.75m <sup>3</sup>
<b>Mount</b>	0.094m <sup>3</sup>	0.139m <sup>3</sup>	0.186m <sup>3</sup>	0.5m <sup>3</sup>	0.51m <sup>3</sup>	0.51m <sup>3</sup>
<b>Support</b>	0.003m <sup>3</sup>	0.004m <sup>3</sup>	0.047m <sup>3</sup>	0.034m <sup>3</sup>		