

100 VSAT



sinuta 

Satellite Antenna
for KA & KU Band
Technical Brochure

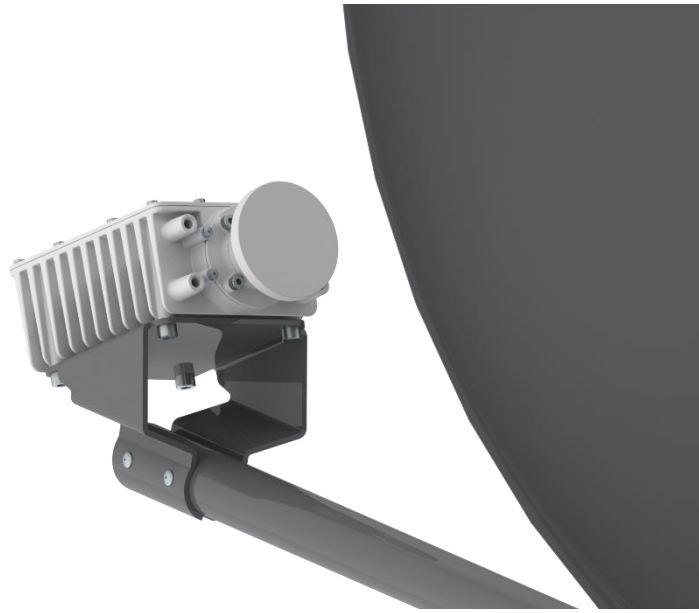
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Technical Specifications

RF

Optics Type
Offset (°)
Effective Aperture (cm)
Polarization
F/D Ratio
Frequency Range (GHz)

Gain (dBi)

-3 dB Beamwidth AZ/EL

Sidelobe Pattern (TX-Co Polar Plane)
In accordance with Eutelsat EESS 502

Cross Polarization (within -1dB contour)

MECHANICAL

Reflector Material
Reflector RMS Surface Accuracy (mm)
Adjustment Range

Mast Pipe Interface
FEED ARM Interface

ENVIRONMENTAL

Windload Tests
Salt Spray
Operational Temperature

Offset
19.8
100 (100 x 105 Physical Axis)
Circular (R/L) / Linear
0.78

Ka-Band

TX 27.5 – 30.0
RX 17.3 – 20.2

Ka-Band

TX 48.1 +/- 0.4 @ 30.0GHz
RX 44.6 +/- 0.4 @ 20.2GHz

Ka-Band

TX 0.68° @ 30.0GHz
RX 1.01° @ 20.2GHz

29-25 log θ dBi for 100 λ /D < θ ≤ 20°
-3.5 dBi for 20° < θ ≤ 26.3°
32-25 log θ dBi for 26.3° < θ ≤ 48°
-10 dBi for 48° < θ

>23dB on RX Ka-band
>25dB on TX Ka-band

Ku-Band

TX 13.75 – 14.50
RX 10.70 – 12.75

Ku-Band

TX 41.7 +/- 0.2 @ 14.5GHz
RX 40.6 +/- 0.2 @ 12.75GHz

Ku-Band

TX 1.4° @ 14.5GHz
RX 1.6° @ 12.75GHz

30dB on RX Ku-Band
30dB on TX Ku-Band

One Piece Powder Painted Galvanized Steel
< 0.3

Azimuth 360° Continuous, with ±5° Fine Adjustment system
Elevation 5° ~ 90° with continuous Fine Adjustment system
Polarization (Skew) ±23° continuous

Ø 60mm (Top Pole)

Ø32mm (outer diameter) / Ø29mm (inner diameter) / **Customizable to any Customer**

Feed/Transceiver Interface

In accordance with ESOG120 – Type Approval and characterization Procedures from Eutelsat
750h ASTM B-117
-40°C to 60°C

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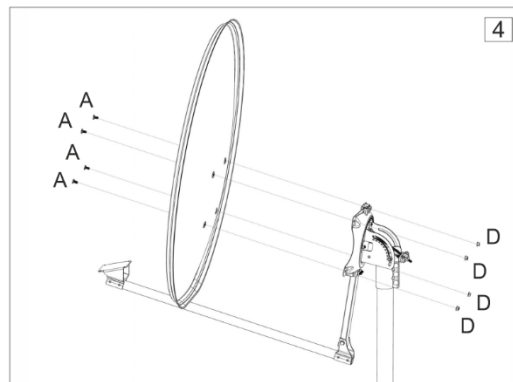
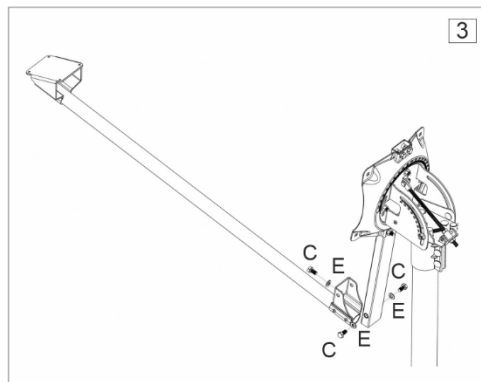
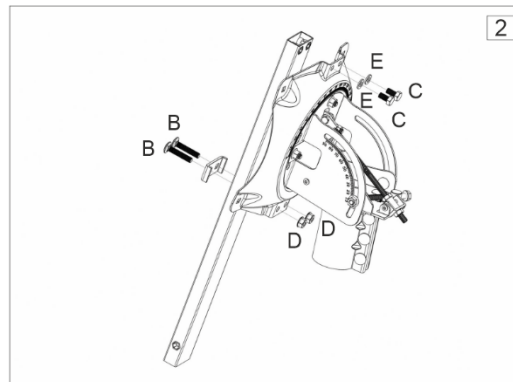
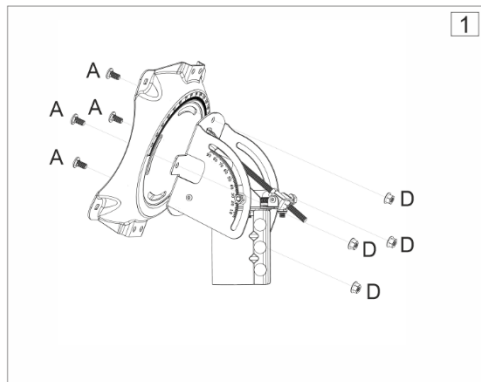
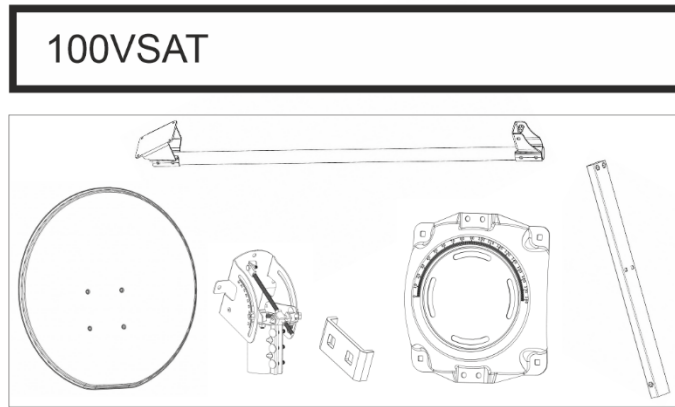
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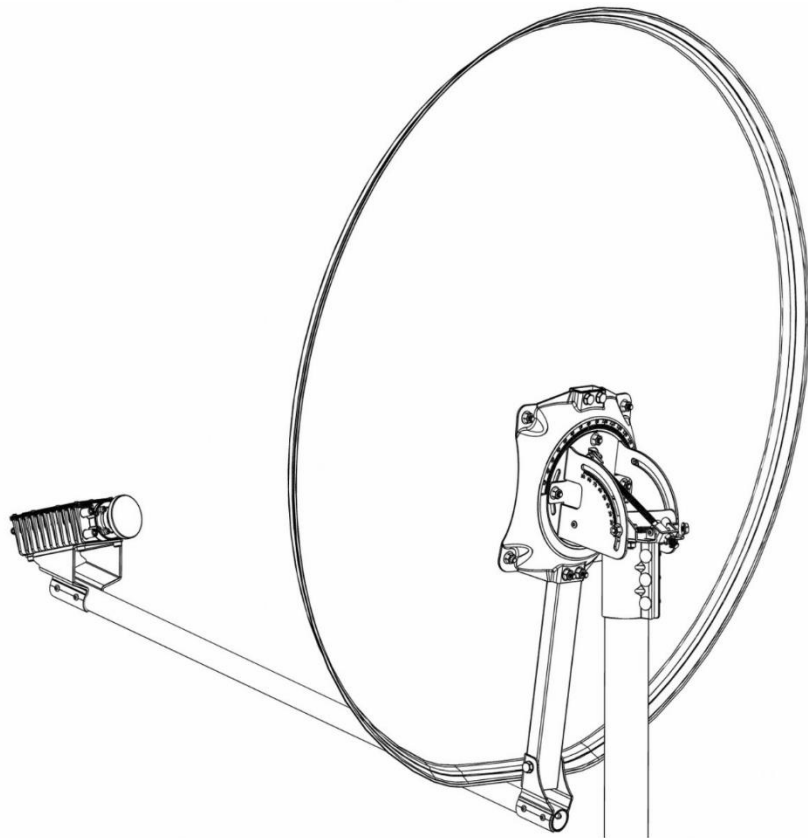
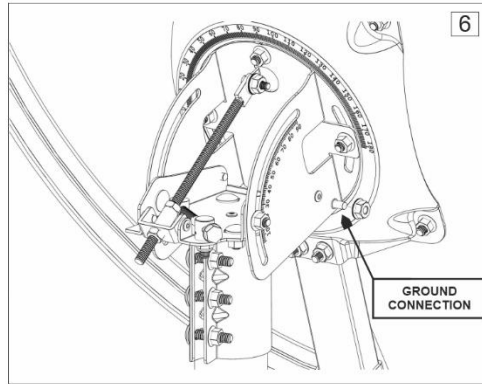
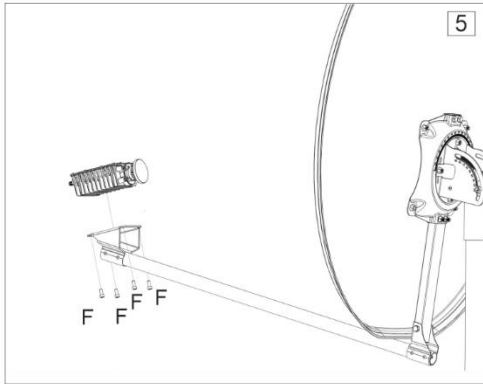
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A		M8 x 16 Oval head, short neck	8
B		M8 x 45 Oval head, long neck	2
C		M8x16 Hex bolt	5
D		M8 sext nut	10
E		M8 washer	5
F		M6x15 Socket head cap screw	4





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