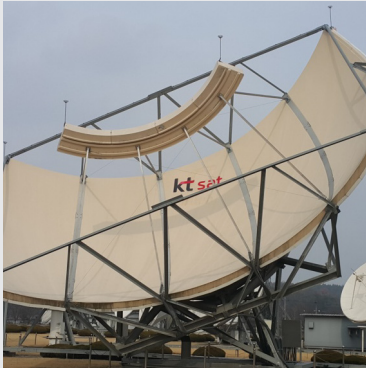


# Ø 7.0 M Multi-Band Receiving Antenna System

**Model No.** 7M-MB-REC



## Description

This antenna system is able to simultaneously receive several different signals within the horizontal degree of 70°.

An array of feeds is installed along the arch angle.

Each feed is installed with 2° gap on the feed tray, so that the antenna can simultaneously receive the signals from 36 GEO Satellites.

Maintenance works can be performed on the feed tray without the antenna operations.

This antenna provides high receiving efficiency, improved sidelobe characteristics, and low noise temperature.

## Electrical Specifications

Model	HG07CKU2		HG07CKU4	
	2 Port Linear Pol.		4 Port Linear Pol. (2 port C-Band, 2 port Ku-Band)	
Electrical	C-Band	Ku-Band	C-Band	Ku-Band
Item	C-Band	Ku-Band	C-Band	Ku-Band
Frequency(GHz)	3.4 ~ 4.2	10.950 ~ 12.750	3.4 ~ 4.2	10.950 ~ 12.750
Gain (Mid:dBi)	47.4	56.2	47.3	54.1
Beam Width(3 dB)	0.73°	0.25°	0.73°	0.25°
VSWR	1.5	1.5	1.5	1.5
Antenna Noise Temperature 10°(EL)	57 K	73 K	71 K	86 K
Axial Ratio	N/A		0.5 dB	
Cross Polarization Isolation	30 dB		25 dB	
Side lobe Performance	ITU-R S.580		ITU-R S.580	
Feed Interface	CPR-229G	CPR-75G	CPR-229G	CPR-75G

## Mechanical Specifications

Antenna Diameter	7 M Parabolic Surface Reflector Type
Antenna Type	Fixed Pedestal
Reflector	Shaping formed aluminum panels, galvanized steel back-up structure
Foundation (L x W x D)	5 x 6 x 0.6 m
Shipping Containers	six 40ft open top, five 40ft standard, two 40ft flat truck
Soil Bearing Pressure	15,000 kg/m <sup>2</sup>
Net Weight	10 ton