

RF Specifications

Ku Band

Antenna Type - Offset one piece elliptical reflector

Effective Aperture	75cm equivalent (62cm x 89cm)
Polarization	Linear
3dB Beamwidth	RX 2.0° @ 12.0 GHz, TX 1.6° @ 14.3 GHz
Sidelobe Envelope	29-25 log(θ) dBi for azimuth
Antenna Cross-Polarization	Better than 30dB on axis
Antenna Noise Temperature (G/T)	@ 30° Elevation 50°K
Rx Frequency	10.95 - 12.75 GHz in three LNB bands
Tx Frequency	13.75 - 14.5 GHz
EIRP Capability	Up to 54dBW (Eutelsat compliant 51.4dBW)
Azimuth Range	± 40°
Elevation Range	5° to 90°
Polarization	270°
L Band Interface	Rx and Tx 950 to 1750 MHz
Deployment Set-up	Less than 5 minutes

Antenna Type - Ring focus nine pieces reflector

Effective Aperture	120cm
Polarization	Linear
3dB Beamwidth	RX 1.29° @ 12.0 GHz, TX 1.113° @ 14.3 GHz
Sidelobe Envelope	29-25 log(θ) dBi for azimuth
Antenna Cross-Polarization	Better than 35dB on axis
Antenna Noise Temperature (G/T)	@ 30° Elevation 41.6°K
Rx Frequency	10.95 - 12.75 GHz in three LNB bands
Tx Frequency	13.75 - 14.5 GHz
EIRP Capability	Up to 63,7 dBW
Azimuth Range	± 15°
Elevation Range	5° to 85°
Polarization	±95°
L Band Interface	Rx and Tx 950 to 1750 MHz
Deployment Set-up	Less than 20 minutes

C Band

Antenna Type - Ring focus nine pieces reflector

Effective Aperture	120cm
Polarization	Linear or Circular
3dB Beamwidth	29-25 log(F) dBi for azimuth
Antenna Noise Temperature (G/T)	@ 30° Elevation 39.3°K
Rx Frequency	3.6 - 4.2 GHz
Tx Frequency	5.8-6.725 GHz
EIRP Capability	Up to 57.5dBW
Azimuth Range	± 15°
Elevation Range	5° to 85°
Polarization	± 95°
L Band Interface	Rx and Tx 950 to 1750 MHz
Deployment Set-up	Less than 20 minutes

BASEBAND MODEM

Transmit Mode	SCPC, MCPC or TDMA
Modulation and Demodulation	Modem dependent (All commercial modem are supported)
Coding	All coding rates supported by modem

INTERFACES

Data interfaces	2 x 10/100 BaseT
Wireless LAN	801.11b/g
Video	Analog PAL or NTSC, or Digital SDI
Audio	Analog Balanced, or Digital AES/BUS
Wireless Broad Band	EasyLINK WiMAX 5.4GHz Unlicensed or 3.5 Licensed

ELECTRICAL

Main Power	90 to 230 Vca 300 to 1300W configuration dependent Option 18 to 30Vcc 25A (EasyFLYSAT_SP)
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MECHANICAL

Stowed Size	990x750x550 cm
Weight	Approximately 38 Kg (Final weight depend by options and configuration required).

ENVIRONMENTAL

Temperature	Operational -30° to 50°C, Storage -40° to 70°C
Operational Humidity	95% non-condensing
Sealing Class	IP68
CE Approvals	EN55022 Class B (Emissions), EN50082-1 Part 1 (Immunity) EN60950 (Safety)