

Commodity SATComm Specifications

Parameter	Terminals
Satellite Look Angle Limits	Elevation: $\geq 20^\circ$ above the horizon
Transmit Frequency and Polarization	13.75 – 14.5GHz, Linear (V or H)
HPA Sizes	30W - 100W
Transmit EIRP (max)	51dBW -72dBW
Receive Frequency	10.7 – 12.75GHz
G/T	11 - 26.4 dB/K @ 11.75 GHz, 20° elevation
Sidelobe Performance	ITU-RS-580, FCC 25.209
Tuning Step size	1 kHz - 125kHz
Polarization Skew Compensation	No

Frequency Range:	Transmit: 13.75 to 14.5 GHz Receive: 10.95 to 12.75 GHz
Data Rate	200 kbps - 9.6 Mbps
Modulation	QPSK BPSK
Occupied Bandwidth	520 kHz - 9.83 MHz
Threshold (BER)	$10E-8$
Threshold Eb/No	2.1 - 6.4 dB
Link Availability	$\geq 99.5\%$ total