

LIST OF SYMBOLS AND GLOSSARY

16APSK	16-Amplitude and Phase-Shift Keying modulation technique
32APSK	32-Amplitude and Phase-Shift Keying modulation technique
8PSK	8-Phase-Shift Keying modulation technique
B	Bandwith, in Hertz
bps	bit(s) per second or bits/sec
C/I	Carrier to Inteference ratio
C/N	Carrier to Noise ratio
C-band	Uplink frequency of C-band : 5925 - 6725 MHz Downlink frequency of C-band : 3400-4200 MHz
CONUS	Continental United Stated
dB	Decibel
dBW	Decibel Watt
Downlink	The link from a satellite down to one or more ground stations or receivers
DR	Data Rate, in bit(s) per second
DVB	Digital Video Broadcast
DVB-S	Digital Video Broadcast over Satellite
DVB-S2	Digital Video Broadcast over Satellite - 2 nd Generation
Eb/No	Energy per bit to Noise power spectral density ratio
EIRP	Effective Isotropic Radiated Power
es	Earth station
Es/No	Energy per symbol to Noise power spectral density
FEC	Forward Error Correction code
forward-downlink	downlink path of signal/data stream from satellite to user(s)
FSL	Free Space Loss
G/T	Figure of merit, gain over system temperature ratio
Gbps	Giga bits per second
GHz	Giga Hertz or 10^9 Hz
HTS	High Throughput Satellite
Hz	Hertz
k	Boltzmann's constant = - 228.6 dBW/Hz/K
K	Kelvin in degree
Ka-band	Uplink frequency of Ka-band : 27,000 – 31,000 MHz Downlink frequency of Ka-band : 17,700 – 21,200 MHz
km	kilo meter(s)
Ku-band	Uplink frequency of Ku-band : 14,000 – 14,500 MHz and 11,450 – 11,700 MHz Downlink frequency of Ku-band : 12,250 – 12,750 MHz and 10,950 – 11,200 MHz

Mbps	Mega bits per second
MHz	Mega Hertz or 10^6 Hz
n	Order of modulation technique, n = 2 for QPSK; n = 3 for 8PSK; n = 4 for 16APSK ; n = 5 for 32APSK
OBO	Output Back Off
PER	Packet Error Rate
QEF	Quasi Error Free
QPSK	Quadrature Phase-Shift Keying modulation technique
sat	Satellite or spacecraft
SE	Spectral Efficiency
TH	Threshold
Uplink	The link from a ground station up to a satellite
Zone	Part of clustering area
α	Roll off factor of the filter at receiving system