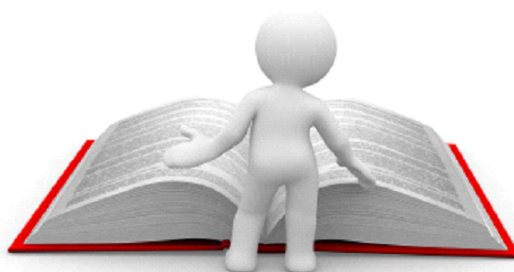


Glossary for
StarBand® Mobile Users
by **M**obile**I**nternet**S**atellite.com

Mobile User's Glossary

MobileInternetSatellite.com



StarBand Mobile User's Glossary

Many thanks to "Leprechaun" Tom Young, Dish It Up Internet, for this glossary!

Word	Brief Definition
ASI	Adjacent Satellite Interference, to be minimized < 5 dB
AUP	Acceptable Use Policy for Terminal, related to FAP
AZ	Azimuth direction for antenna pointing, measured in degrees
BUC	Block Up-Converter, BUC, ODU, & Transmitter are sometimes used interchangeably, because they all relate to transmitting
GCD	Gain Control Device Adapter for ODU/transmitter/BUC
Burst Mode	Burst Modulation, used by BUC for transmitting data
C/N	Carrier-to-Noise Ratio (dB) for satellite signals
Co-Pol	Co-Polarization C/N, the good transmitted signal, to be peaked > 24 dB
Cross-Pol	Cross-Polarization C/N, the interfering transmitted signal, isolation, to be minimized < 4 dB
CVACS	Consumer VSAT Automated Commissioning System, used to commission modem and to check/adjust alignment
CW	Continuous Wave, used by BUC for pointing antenna

Word	Brief Definition
DHCP	Dynamic Host Configuration Protocol, used to automatically assign an IP address to devices
Downlink	Portion of communications link used to transmit signals from a satellite down to an Earth Terminal (VSAT or HUB)
EbN0	Energy per bit to noise power spectral density ratio, normalized S/N ratio, measure of noise density
EL	Elevation for antenna pointing, measured in degrees
ERN	Equipment Record Number used by StarBand®, serves as the customer Site Number
EULA/EUA	End User License Agreement/End User Agreement
FAP	Fair Access Policy defines the limit on download/upload in MBytes per week
GILAT®	Gilat Satellite Networks, was the parent corporation of SpaceNet® that owns StarBand®, until it was sold to Sagenet in August 2013
HUB	The satellite communicates with the Network Operation Center (NOC) of StarBand®, called the hub. It has a direct connection to the Internet.
IDU	The InDoor Unit comprises the modem and Power Supply.
IF Signal	An Intermediate Frequency (L-Band) Signal is used between the modem and the transmitter and LNB, i.e., on the coaxial cables.
IFL	InterFacility Link, RG-6 coaxial cables with type F connectors that connect the modem to the transmitter and LNB
Inbound	Signals Sent from your VSAT to the HUB via satellite
Installer ID	When a mobile user or installer passes the installer certification exam, StarBand assigns an installer ID and passcode. They identify the installer to CVACS (user ID and password).
Ka-Band	Frequency range used by newer spot-beamed satellite services, 26.5 - 40 GHz, Wavelength range 1.11 cm - 7.5 mm
Ku-Band	Frequency range used by satellite services, coverage can be an entire continent, 12 - 18 GHz, Wavelength range 2.5 - 1.67 cm
L-Band	IF signal used on coaxial cables, between modem and transmitter/LNB, 950 - 1450 MHz for StarBand
LAN	Local Area Network, Connector Socket on Modem for link to computer via RJ-45 cable
LNB	Low Noise Block, frequency down-converter for Rx
LOS	Loss of Signal
Modem	Modulator/Demodulator, converts data stream to/from computer to IF signal for LNB/transmitter, StarBand® uses the SkyEdge™ IP VSAT Modem, it also supplies 24 VDC/2.8A
Nova SkyEdge	Nova SkyEdge Modem from GILAT® is the most recent modem family offered by StarBand®

Word	Brief Definition
ODU	OutDoor Unit, another name for transmitter/BUC
On-Line	LED on Modem indicating Hub Connection & Modem is Online
Outbound	Signals Received by your VSAT, from the Hub via satellite
PWR	LED on Modem indicating Power is On
RF	Radio Frequency Energy, signals used for communications via "radio"
RF-IN	Modem input connected to the LNB via IFL cable
RF-OUT	Modem output connected to the transmitter via IFL cable
RG-6	Coaxial cable type used for IFL cables
RJ-45	Connector used with Cat 5 data cable on digital link from modem to computer, defined by Ethernet/IEEE 802.3 standard
Rx	Receive Signal, LED on modem indicating a receive lock from the satellite
Serial	Connector socket on the modem, it could be an RJ-45 or a standard 9-pin serial socket, it is not used by StarBand®.
Skew	Antenna dish rotation to adjust polarization
SkyManage	Web interface in modem, it provides status and tools for configuring, testing, and monitoring the received signal.
Telemetry	SkyManage display of received signal quality and CPU usage, it can be used to point the antenna
StarBand®	Satellite Internet Provider using Ku-band
S/N	Signal-to-Noise Ratio for satellite signals, in dB, aka SNR
Sync	LED on Modem indicating synchronization with the Hub
TRF	Transmit Reject Filter, prevents the energy coming from the transmitter, from interfering with the received signal that is down converted by the LNB, It can be internal or external, to the LNB
Tx	Transmitting, LED on Modem indicating transmit activity from modem to transmitter
Uplink	Portion of communications link used to transmit signals from an Earth Terminal (VSAT or Hub) up to a satellite
VSAT	Very Small Aperture Terminal