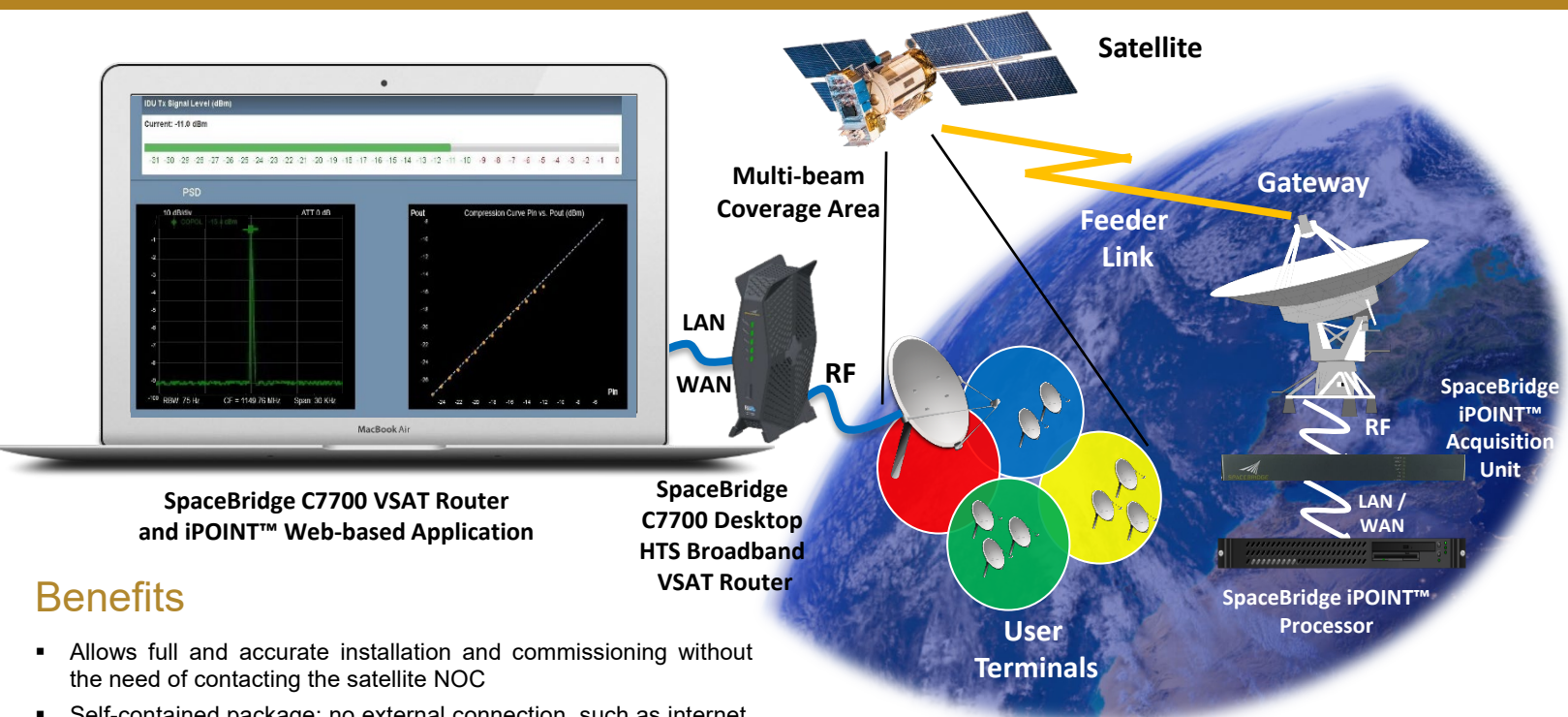


This advanced tool provides a quick, easy and inexpensive way to efficiently install VSAT terminals with SpaceBridge modems.



SpaceBridge C7700 VSAT Router and iPOINT™ Web-based Application

SpaceBridge C7700 Desktop HTS Broadband VSAT Router

SpaceBridge iPOINT™ Processor

Benefits

- Allows full and accurate installation and commissioning without the need of contacting the satellite NOC
- Self-contained package: no external connection, such as internet, WiFi or mobile access required
- At the User Terminal (UT), no additional hardware, like sat-finders and spectrum analyzers, or additional software required for the UT installation and commissioning
- The solution is fully embedded in the IDU web-page application
- Provides fast real-time spectrum display with multiple tracers and markers to facilitate the measuring of the uplink CW signals automatically transmitted by UTs
- Works at the Gateway with SpaceBridge iPOINT™ Acquisition and Processor units. The Processor hosts the application that runs 24/7 to multicast the received CW measurements from the remotes over the Forward Link (Outbound) to all installers, so no human interaction or external connection is needed
- Initial pointing parameters are calculated automatically, based on GPS coordinates and satellite longitude
- Helps satellite operators minimize interference issues (i.e., XPOL, Spectrum Regrowth and ASI interferences) by carrying out accurate VSAT testing and commissioning
- Optimizes satellite transponder usage
- Provides flexible measurement mode, complete control at all times
- Additional Modem auto-configuration is performed, based on the quality of the link achieved during the installation

Specifications

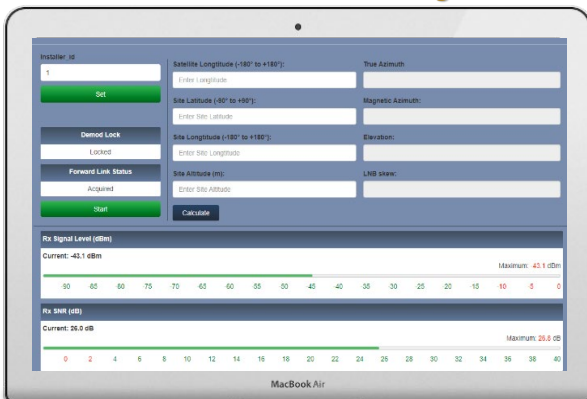
- Can support multiple installations simultaneously, up to 30 VSATs or more
- 30 KHz is the minimum channel bandwidth required to test a single VSAT
- Very fast measurements (250 ms) for 30 concurrent installations
- Compatible with most SpaceBridge modems
- Supports S, C, X, Ku and Ka-bands
- Guides the installer through the tests required by satellite operators:
 - Antenna coarse peaking (Az/EI adjustment based on FL Rx Signal Level Strength and SNR parameters)
 - Antenna fine peaking (Az/EI adjustment based on CW uplink transmission)
 - Cross-polarization adjustment (Isolation better than 35 dB)
 - Fully automatic P1dB test (includes real time P_{in} vs P_{out} graphs)
- Allows the NMS to automatically evaluate the performance of the installation and quality of future operation
- Provides installation reports with commissioning scores
- Runs high accuracy and precision measurements

iPOINT™ - VSAT Automatic Commissioning Installer Tool

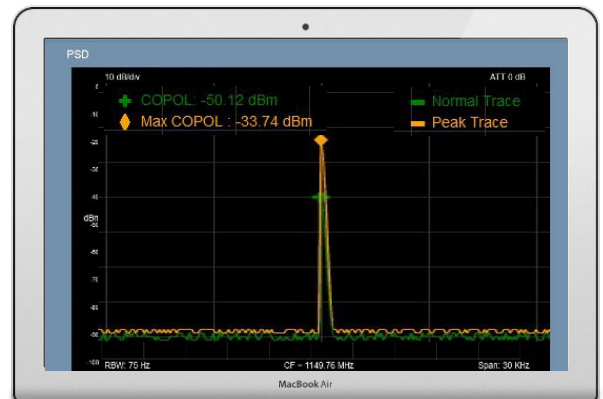
Commissioning in 6 easy steps



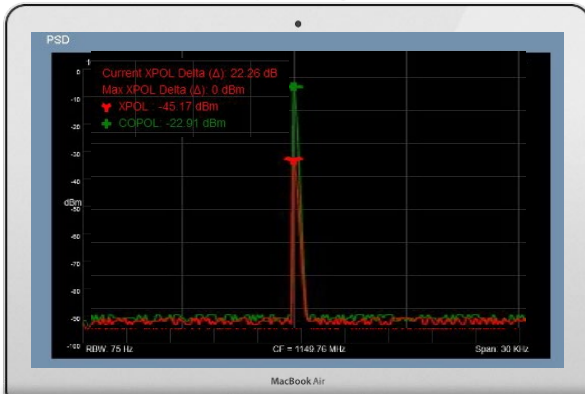
Step 1 & 2 – Satellite Look Angle Calculator and Antenna Coarse Peaking Test



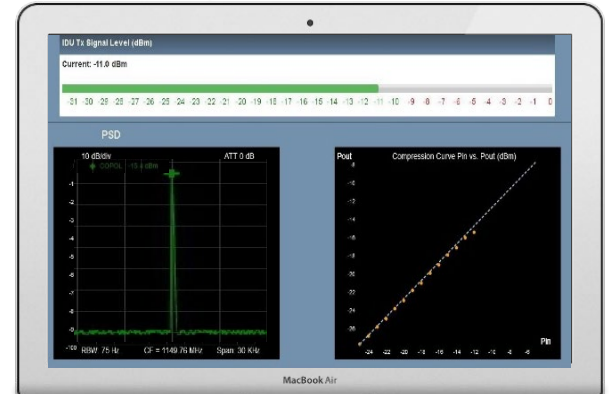
Step 2 - Antenna Fine Peaking Test



Step 3 - Cross-pol Adjustment Test



Step 4 - P1dB Test



Commissioning Reports At The Hub

VSATs

Service Provider: User Terminal Group: User Terminal Name:

Select All

User Terminal	MACAddress	IP Address	Commissioned	Rx Es/No (dB)	Max COPOL (dBm)	CPI (dB)	P1dB (dBm)	Installer ID	Installer Name	Date	Commissioning Score
<input checked="" type="checkbox"/> SIDU23	00:09:CE:C0:1E:5A	172.16.23.1/24	PASS	14.5	-52.57	32	-17	1	John J.	Sep. 3, 2022	95%
<input checked="" type="checkbox"/> SIDU24	00:09:CE:C0:1D:D6	172.16.24.1/24	PENDING	-	-	-	-	-	-	-	0%
<input checked="" type="checkbox"/> SIDU25	00:09:CE:C0:08:85	172.16.25.1/24	FAIL	11.3	-63.5	26.7	-2.1	3	Lisa S.	June 19, 2022	50%
<input checked="" type="checkbox"/> SIDU26	00:09:CE:C0:07:7D	172.16.26.1/24	PASS	13.4	-58.9	28.5	-19.5	7	Roger K.	July 15, 2022	90%