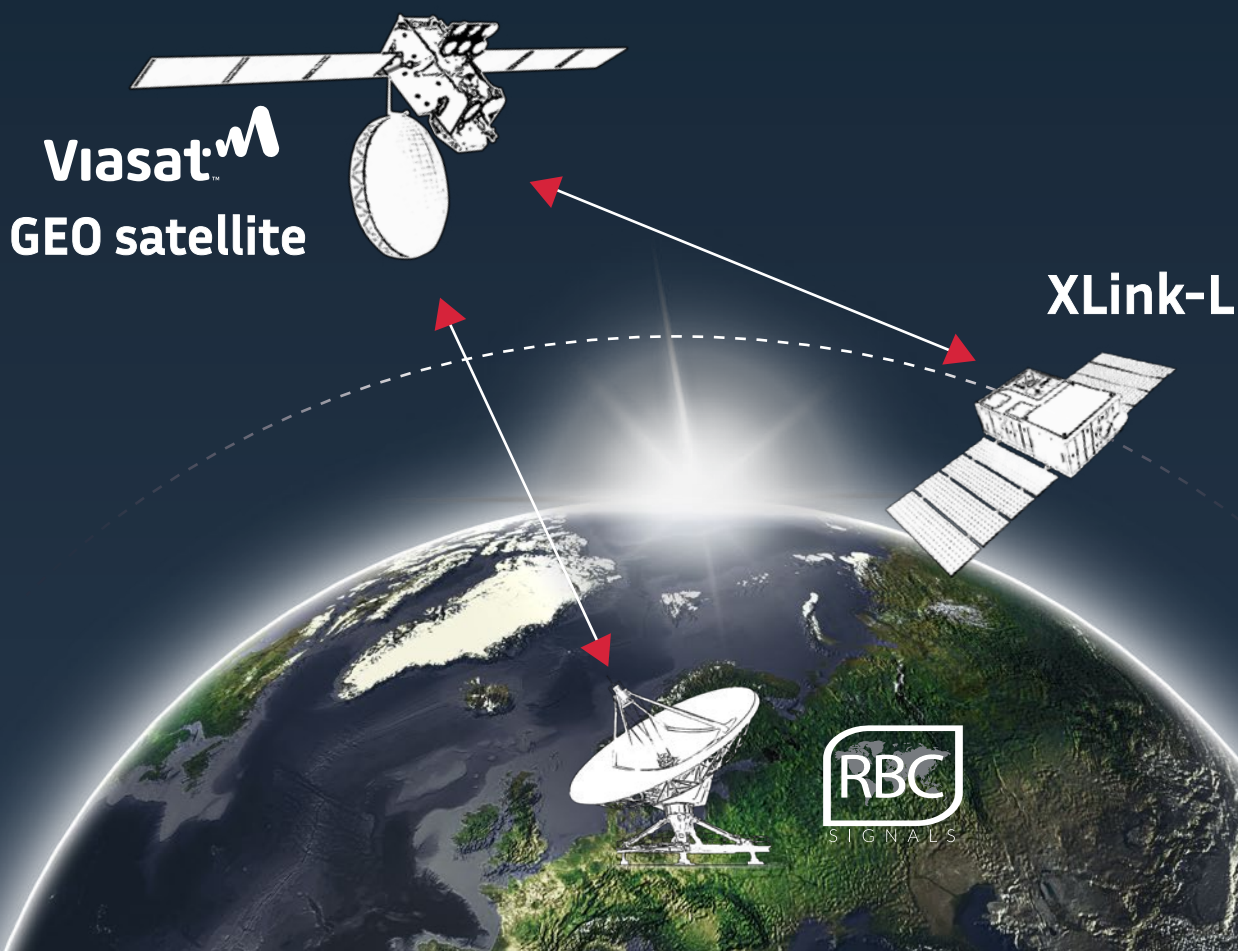




Go *BIC*

AVAILABLE - ANYWHERE, ANYTIME

Global On-Demand Bidirectional Intersatellite Connection



Go.BIC Service

Go.BIC is a highly flexible service that allows LEO operators to request L-Band capacity within Viasat's global GEO satellite network.

With the Go.BIC service, LEO operators can flexibly choose how often and when they require satellite connectivity for their LEO assets. This pay-as-you-go model ensures they only pay for what they need, avoiding long-term leases that could lead to underutilized spectrum resources. IQ spacecom's XLink-L provides reliable bidirectional communication links from the LEO satellite via Viasat's GEO satellite and RBC's GSaaS, allowing the customer to utilize the Go.BIC service.

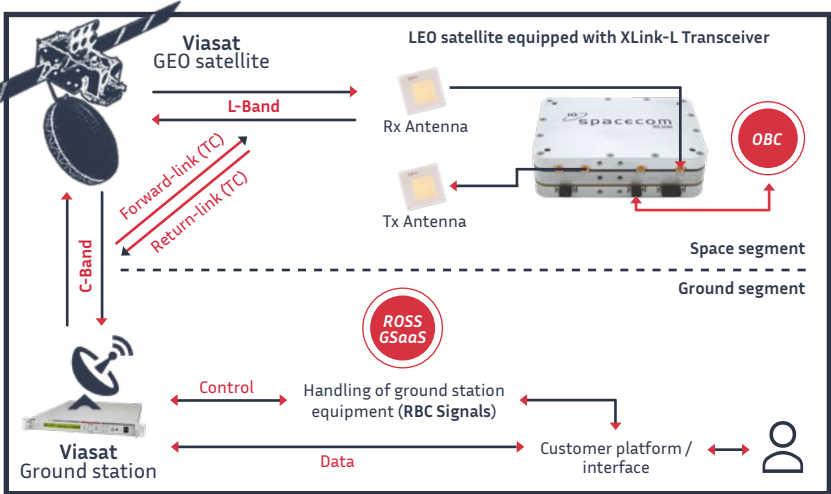


Description	XLink-L
XLink-L is based on successfully in space flown XLink transceiver for full duplex communication links and has been adapted in radio front end to the L-Band frequency range. XLink is based on a SDR platform and is available for X-, S-, L- and Ka-Band communication links. This flight-proven transceiver is ideal for small satellites due to its ultra-small size and low volume.	90 mm 65 mm 25,3 mm 2 TX 2 RX POWER ETHERNET I/O

Go.BIC Parameter

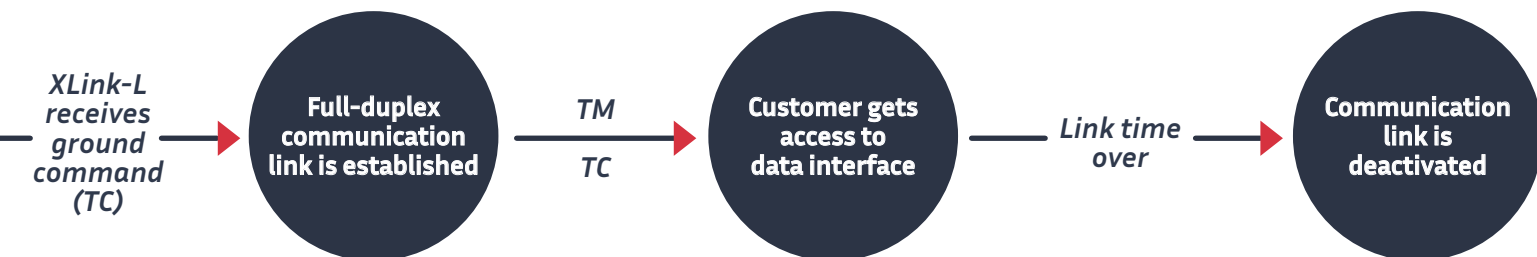
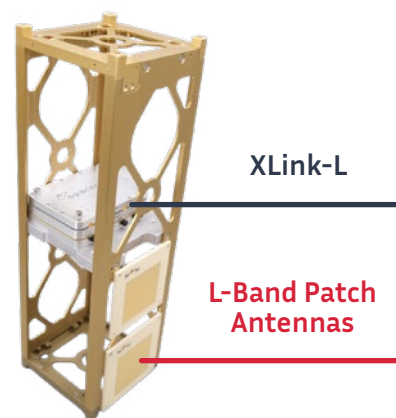
RBC Signals' **ROSS** platform controls the required ground equipment and their **STORM** platform controls the allocation of the required spectrum over the specific areas in the correct time slot.

The customer can book a specific time slot and location to communicate with their satellite equipped with the XLink-L transceiver. The booking is either confirmed or rejected. If it is rejected, alternative slots are available, e.g. next beam. With a confirmation, the customer can use the Go.BIC service as planned. The ground segment and beam establishment are prepared and executed by the service according to the planned schedule. The customer receives access via the Internet to communicate with their satellite. When the slot is over, the communication link is closed.



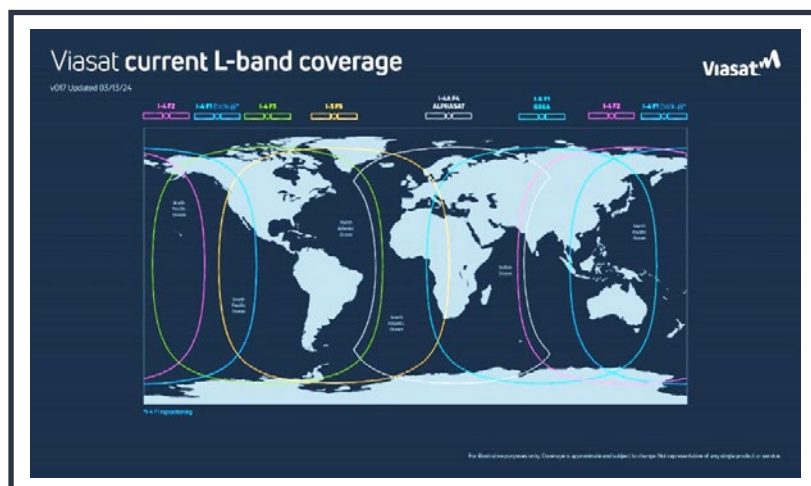
Benefits

- Ensures real-time allocation of L-Band capacity on a global scale
- For improved flexibility and control over your mission
- Complements existing ground station networks to extend coverage to previously unconnected areas, e.g. oceans
- Provides a cost-effective alternative for telemetry and telecommand for every type of LEO satellite operator
- Enables new operational concepts for LEO satellites



Technical Details			Key Facts
L-Band Tx Operation: 1.6265 - 1.675 GHz	Data Rate Rx: 2 kbps ... 128 kbps	Low Power Consumption: 10 W (Tx + Rx)	- Low SWaP - Instant TM/TC - High availability - Based on existing infrastructure in space - CCSDS Protocol conform - Suitable L-Band Patch Antennas available - Compatible AX-60 Ground Modem on-hand
L-Band Rx Operation: 1.518 - 1.559 GHz	Linear RF Output Power: 2x up to +30 dBm (combined up to +33 dBm)	DC Supply Voltage: 6 - 18 V / 28 V	
Operational Mode: FDD / Full Duplex / Half Duplex	Automatic Doppler Shift Compensation in RX: Up to 50 kHz	Low Mass: 200 grams	
Data Rate Tx: 2 kbps ... 128 kbps			

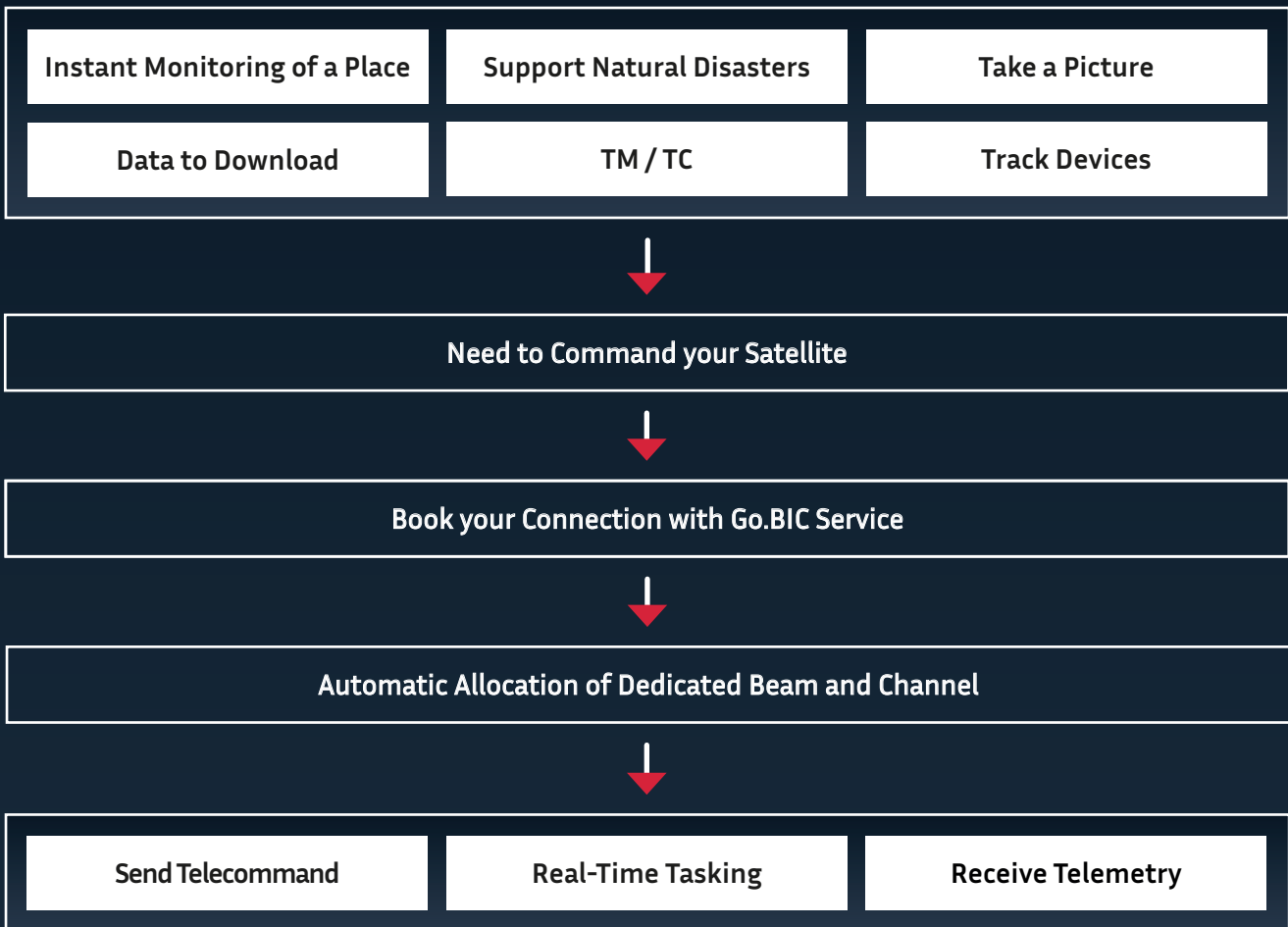
System Architecture



With the support of Viasat-managed GEO relays, a satellite communication system using LEO satellites equipped with XLink SDR technology will provide the Go.BIC service. Emphasis is placed on reliable infrastructure and comprehensive immediate orbital access through an existing space infrastructure. With this described and demonstrated system architecture, the accessibility and usability of LEO satellites can be realized like well-known earth-based communication systems.

- Global coverage, instantaneous service
- Based on Viasat's L-Band GEO satellite network
- ISL between LEO and GEO
- Direct real-time customer access

USE CASES



ABOUT US

- IQ spacecom is a business division of IQ Technologies for Earth and Space GmbH
- Offering high-performance radio communication solutions
- With **20+ Years** of worldwide project experience in Earth observations, remote sensing, scientific missions etc.

Get in touch with our experts ...



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