

SWIFT™ -LINQ

Software Definable Intelligent Mesh Network Solution

Description

Introducing the first small satellite mesh crosslink networking, SWIFT®-LINQ. Integrate a SWIFT-SLX with SWIFT-LINQ into your bus to mesh satellites on a single network. Each SWIFT-LINQ equipped satellite allows your users to access services such as – TT&C, payload data, or sensor data on any node from anywhere. In addition, satellites from multiple manufacturers can now communicate on a common network, giving your product more opportunities to perform. By establishing a network of satellites, swarming, autonomy, and collaborative behaviors are now possible.



Why SWIFT™ – LINQ?



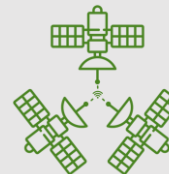
Flight Heritage

A proven network that has been flown in space



Mesh Networking

Unites satellites on a single networking



Enable Swarms

Leverage collaborative behaviors in-space



Zero Trust Blockchain

Optional add-on for additional security

Specifications

Networking	Specification
Network Size	5 Links / Nodes
Scalability	Up to 20 Nodes; Node-to-Node hopping with TTL
Data Rate	1 Mbps
Range	50m – 100km
Topology	Software Defined
Xceivers	2 S-Band Omni-Directional Design
Routing	Barrage Routing
Message Types	Unicast, Multicast, and Broadcast Support
Auto Rate Adjustment	Up to 4 rates
Auto Transmit Power	Up to 4 Power Settings
Multiplexing	TDMA Baseline; CDMA Option Available

Quality of Service

RSSI (Local & Remote)

Viterbi Error Rate (Local & Remote)

Data Rate (Local & Remote)

BER (Local & Remote)

SNR

Packet Loss count and/or rate for each link

Packet Throughput and Latency

Neighbor List for each Node

Neighbor Range

Software Defined Networking

Smart Mesh Routing Algorithms

Ground Ops Configurable

Network Performance and Monitoring from anywhere

Additional Options

Zero Trust Blockchain

Node Addressing

IPv4 Addressable Nodes

Static

Dynamic Mesh Routing

Software Defined Networking

Hardware

Compatible with all TUI radio products

Benefits

Expandable and Adaptable Network

Reduces latency and system downtime

Supports Terrestrial and Space SWARM/ Collaboration

Allows for connectivity in Anti-Access/Area Denial areas

Data and Architecture Agnostic