

SWIFT™ -SLMR

High-Bandwidth SWIFT-LINQ Mesh Network Router

Description

The SWIFT-LINQ Mesh Router provides incredible capabilities in a small package. Designed as an onboard network router, it provides blazing speed combined with the top-of-the-line security algorithms. SWIFT-LINQ acts as an MPLS LSR or LER router meeting the SDA Tranche 1 Nebula Specification. It also features Software Defined Networking Technology to enable Label Look-up table modification to support changes in network configuration inherent to satellite operations.

Enables Optical or RF crosslink networks to be interoperable:
Similar to how terrestrial switches operate

SFP Ports Available:
Can enable optical or copper connections



Low SWaP:
(L) 200 x (W) 116 x (H) 47 mm and
< 1000 grams

Six 10GbE Ports:
Each enabling 2.5Gbps

Why SLMR?



High Speed Mesh Routing

Fastest space router on the market at 10Gbps



Adjustable Routing Algorithms

Machine Learning routing modification based on orbital dynamics. Stay connected when connections are typically lost



Scalability

MPLS enables growing networks

Specifications

Function	Specification
Performance	
Peak Aggregate Throughput	> 5 Gbps
Peak Port Throughput	10 Gbps
SWaP	
Size	(L) 200 x (W) 116 x (H) 47 mm
Mass	< 1000 grams
Input Voltage	9-34.6 VDC
DC Power Consumption (Operating)	20W max
Operating Temperature	-30C to +60C

Interfaces*

6x 10GbE
2x 1Gbe
RS-422
LVDS

Encryption (Optional Add-On)

AES-256 up & down
FIPS140-2 Level 1
OTA Rekeying & Key Zeroize
Crypto-SWIFT T1 Compatible (KI-55;KI-103)

Routing Capabilities

Multiprotocol Label Switching (MPLS Support)
LSR & LER Functionality
Supports LDP and RSVP
SDN based Label Look-up Table modifications
SDA T1 NEBULA Standard v30. Compliant
Seamless Ethernet 3 Routing
SDN Routing – Rules Based Routing (OpenFlow)

*Additional Interfaces Available

CONNECT THE UNIVERSE

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