

Extended L-Band Switch Matrix 16:16 (fan-out/distributive)

The FlexLink S9E-1616 represents a professional 16:16 L-Band Switch Matrix (fan-out/distributive) designed in a compact and space-saving 1RU/19" rack mount chassis available with RF coax I/O connectors or with optical inputs.

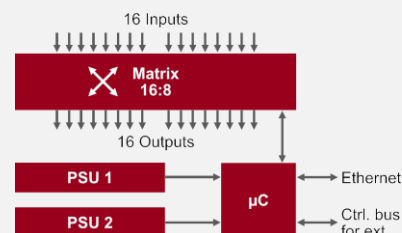
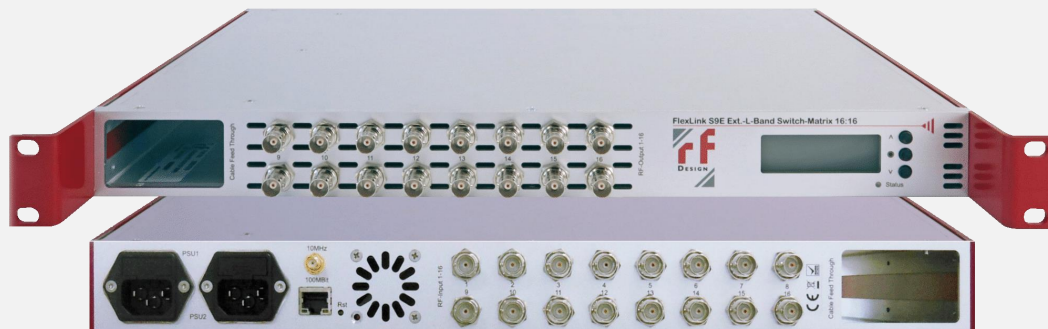
The FlexLink S9E-1616 is a future proof L-Band Switch Matrix supporting extended L-Band frequency 850 – 2450MHz, making it a perfect solution also for KA-Band and HTS applications. The unit features an efficient, flexible and reliable solution for today's and future L-Band signal management and allows to switch/route any input to any or all outputs without limitations and interferences, while all combinations of inputs and outputs are configurable locally and remotely.

The FlexLink S9E-1616 supports variable gain control, slope equalization, RF power monitoring, Threshold monitoring/ alarming, as well as 1:1 redundant dual power supply.

Furthermore, the unit features switchable LNB-supply and a 10MHz external reference signal input. Isolation, linearity and frequency response are at the highest level assuring excellent and stable operation with superior RF performance and signal quality.

The FlexLink S9E-1616 has a LC-Display & keypads for user-friendly local configuration. Remote configuration and monitoring can be done via its rear side Ethernet-Interface (WebGUI, SNMP) while it can also be integrated into a management and control system (NMS or M&C) via SNMP.

The FlexLink S9E-1616 is an ideal platform for flexible signal switching applications and perfectly suited for integration into Teleports, Satellite Earth Stations, DSN's as well as Broadcasting and CATV/IPTV headend architectures.



FEATURES & BENEFITS

- ▶ Space saving 1RU/19" modular rack mount design
- ▶ Professional switching solution with 16:16 I/O configuration
- ▶ Also available with optical inputs*
- ▶ Variable gain control (@ any input)
- ▶ L-Band slope equalization 0 to 9dB (@ any input)**
- ▶ RF power monitoring (@ any input)
- ▶ Threshold monitoring/alarming
- ▶ 10MHz external reference input (@ any input)**

- ▶ Switchable LNB supply 13/15/18V, 22kHz (@ any input) 400mA current monitoring, 450mA alarm shutdown**
- ▶ Front side LC-Display & keypads for local configuration
- ▶ Rear side Ethernet-Interface for remote configuration (WebGUI, SNMPv2c)
- ▶ Low power consumption & heat generation
- ▶ Superior RF performance, signal quality and stability
- ▶ Admin & User login protection
- ▶ 1:1 redundant dual power supply

**Upon request only / **Not available when equipped with optical inputs*



TECHNICAL SPECIFICATIONS

Dimensions:	1RU/19" rack mount; weight approx. 7kgs.
Switching Configuration:	16:16 I/O's (inputs rear side, outputs front side)
Power Supply:	85 – 230V, 50/60Hz, 1:1 redundant
Power Consumption:	<25W (without LNB-supply)
Frequency Range:	850 – 2450MHz (extended L-Band)
Input/Output Connectors:	75Ohm F(f), 75Ohm BNC(f)*; 50Ohm SMA(f), 50Ohm BNC(f)*, optical SC/APC*
10MHz External Input:	50Ohm SMA(f), rear side**
Variable Gain Control:	0dB to +10dB, 1dB steps (@any input)
Slope Equalization:	0 to 9dB, 1dB steps (@any input)**
RF Input Power:	-10dBm nominal, 6dBm max.
Output IP1:	+3dBm
Max. RF Output Power:	+5dBm max.
Input/Output Return Loss:	12dB min. 75Ohm Version, 14dB min. 50Ohm Version
Isolation:	Input/Input ≥60dB – Output/Output ≥60dB – Input/Output ≥60dB
Noise Figure:	10dB typ., ± 1dB / 24dB typ., ± 1dB (@ full gain) w. optical inputs*
Frequency Response:	± 1dB typ. ± 1,5dB max. in L-Band / ± 3dB max. in extended L-Band*
RF Power Monitoring:	60dB dynamic range (@ any input) with threshold adjustment/alarming
Input Level Control:	Monitoring threshold adjustment/alarming
IMA3 @ -10dBm:	> -56dBc @-10dBm
Switchable LNB-Supply:	13/15/18V/22kHz, 390mA, 400mA max. (@ any input)**
Local Configuration:	LC-Display/keypads
Remote Configuration:	RJ45 100Mbit Ethernet-Interface (WebGUI, SNMPv2c)
Environmental:	ETSI En300, Part 1-3, Class 3.1
EMC/Safety:	EN 50083-2 / EN 60950
Operating Temperature:	-20°C to 50°C
Storage Temperature:	-30°C to 75°C
MTBF:	2000K hrs min. MIL-HDBK-217F (25°C)
Humidity:	90%, non-condensing
RoHS:	Compliant

OPTICAL SPECIFICATIONS (variants with optical inputs)

Fiber Type:	Single mode 9/125
Optical Input Connector:	SC/APC
Operating Wavelength:	1310 – 1560nm
Optical Input Level:	-10dBm (min. optical sensitivity) to +10dBm max. (damage level)
SFDR:	-107dBc/Hz typ.

ORDER INFORMATION

Type	Type No.	Short Description	I/O Connectors
FlexLink S9E-1616-75F	9001018	16:16 Switch Matrix, extended L-Band	75Ohm F(f)
FlexLink S9E-1616-75B	9001040		75Ohm BNC(f)
FlexLink S9E-1616-50S	9001066		50Ohm SMA(f)
FlexLink S9E-1616-50B*	on request		50Ohm BNC(f)*
FlexLink S9E-1616-50S-SC/APC	9001228		Optical In SC/APC; 50Ohm SMA(f) Out
FlexLink S9E-1616-50B-SC/APC*	on request		Optical In SC/APC; 50Ohm BNC(f) Out*
FlexLink S9E-1616-75F-SC/APC	9001227		Optical In SC/APC; 75Ohm F(f) Out
FlexLink S9E-1616-75B-SC/APC*	on request		Optical In SC/APC; 75Ohm BNC(f) Out*

*Upon request / **Not available when equipped with optical inputs