

FlexLink S9E-88X Hybrid

Extended L-Band Hybrid Switch Matrix 2 x 8:8 (distributive & combining)

The FlexLink S9E-88X represents a professional dual 8:8 hybrid Switch Matrix. It includes an 8:8 distributive (fan-out) and an 8:8 combining (fan-in) switch matrix both built into a 1RU/19" rack mount chassis.

The FlexLink S9E-88X is a future proof hybrid Switch Matrix supporting extended L-Band frequency 850 – 2450MHz thus also ready for Ka-Band and HTS applications.

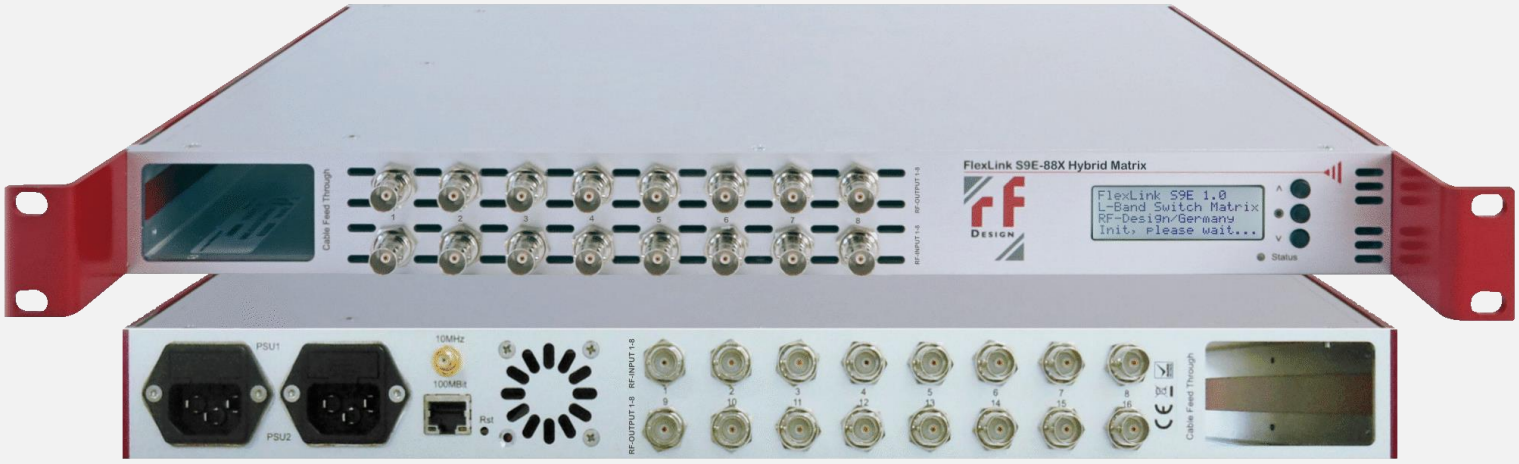
The unit features an efficient, flexible and reliable solution for today´s and future L-Band signal management applications and is a perfect fit for satellite uplink and downlink stations such as VSAT hubs and terminals, smaller satellite ground stations and teleports, LEO and MEO gateways, as well as for maritime and oil & gas terminals.

It supports variable gain adjustment, RF power monitoring, threshold monitoring/alarming and comes with 1:1 redundant dual power supply.

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-88X has a front panel LC-Display & keypads for user-friendly local configuration.

Remote configuration and monitoring can be done via its Ethernet Interface (WebGUI, SNMP) while it can also be integrated into a management and control system (NMS or M&C) via SNMP.



FEATURES & BENEFITS

- Space saving 1RU/19" modular rack mount design
- Professional distributive and combining switching solution
- Variable gain adjustment (distributive @ any input)
- Variable gain adjustment (combining @ any output)
- RF power monitoring
- Threshold monitoring and alarming
- Front side LC-Display & keypads for local configuration
- Ethernet Interface (WebGUI, SNMPv2c)
- Low power-consumption & heat generation
- Superior RF performance, signal quality and stability
- Admin & User login protection
- 1:1 redundant dual power supply

FlexLink S9E-88X Hybrid

Extended L-Band Hybrid Switch Matrix 2 x 8:8 (distributive & combining)

TECHNICAL SPECIFICATIONS RACK MOUNT CHASSIS

Dimensions:	1RU/19” rack mount; weight approx. 6kgs.
Switching Configuration:	8:8 distributive (fan-out) and 8:8 combining (fan-in) I/O´s
Power Supply:	85 – 230V, 50/60Hz, 1:1 redundant
Power Consumption:	<25W
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

TECHNICAL SPECIFICATIONS RF SWITCH MATRIX

	Distributive Switch Matrix (fan-out)	Combining Switch Matrix (fan-in)
Frequency Range:	850 – 2450MHz	850 – 2450MHz
Input/Output Connectors:	50Ohm SMA(f)	50Ohm SMA(f)
Variable Gain Control:	0dB to +10dB, 1dB steps (@any input)	0dB to +10dB, 1dB steps (@any output)
RF Input Power:	0dBm max.	+16dBm max.
Output IP1:	+6dBm	+15dBm
Max. RF Output Power:	+10dBm max.	+10dBm max.
Input/Output Return Loss:	18dB min.	16dB min.
Isolation:	Input/Input ≥60dB Output/Output ≥60dB Input/Output ≥60dB	Input/Input ≥60dB Output/Output ≥60dB Input/Output ≥60dB
Noise Figure:	10dB max.	12dB max.
Frequency Response:	± 1dB typ. ± 2,0dB max.	± 1dB typ. ± 2,0dB max.
RF Power Monitoring:	60dB dynamic range (@ any input)	60dB dynamic range (@ any output)
Input Level Control:	Monitoring threshold adjustment and alarming	Monitoring threshold adjustment and alarming
IMA3 @ -10dBm:	-46dBc typ.	-60dBc typ.
Group Delay:	< 1,0ns	< 1,0ns

ORDER INFORMATION

Type	Type No.	Short Description	I/O Connectors
FlexLink S9E-88X-50S	9001127	Dual 8:8 Distributive and Combining Switch Matrix, extended L-Band 850 – 2450MHz	50Ohm SMA(f)

OPTIONS

Type	Type No.:	Short Description
Option10M - 10MHz Internal Source	9001531	10MHz sine Wave, +5dBm, Aging ±500 ppb max. @ 10 years: Phase Noise -90 dBc @ 1 Hz, -120 dBc @ 10 Hz, -142 dBc @ 100 Hz, -155 dBc @ 1 kHz, -160 dBc @ 10 kHz.

RF-Design GmbH | Lahnstr. 13 | 64625 Bensheim | Germany
Phone: +49 (0) 6251 80 384 – 0 | E-Mail: contact@rf-design-online.de | Web: www.rf-design-online.de

CE ISO 9001 2015 CERTIFIED RoHS Compliant

© 11/11/2026 – RF-Design_FlexLink S9E-88X_distributing_and_combining_matrix_V1-6rm – Subject of change/modifications without notice