FlexLink S26

L8:24 L-Band Matrix Switch

GENERAL

The FlexLink S2B in 1RU/19" rack-mount design represents a 8:24 L-Band Switch Matrix. This unit features an efficient, reliable and space saving solution for today´s and future L-Band signal management applications and allows to switch/route up to 8 independent L-Band signals to up to 24 outputs without limitations and interferences (any input can be routed to one or all outputs) while all combinations of in- and outputs are freely configureable locally and remotely.

The new FlexLink S2B is a future proof Switch Matrix now with widened bandwidth of 850...2450MHz, also supporting the extended L-Band (850-2450MHz) and L-Band (950 - 2150MHz) frequency ranges making it a perfect solution also for KA-Band and HTS applications.

The unit additionally features variable gain-control, switchable LNB-supply, RF power monitoring and 1:1 redundant dual power-supply. Isolation, linearity and frequency response values are at the highest level assuring excellent and stable operation with superior RF performance and signal quality.
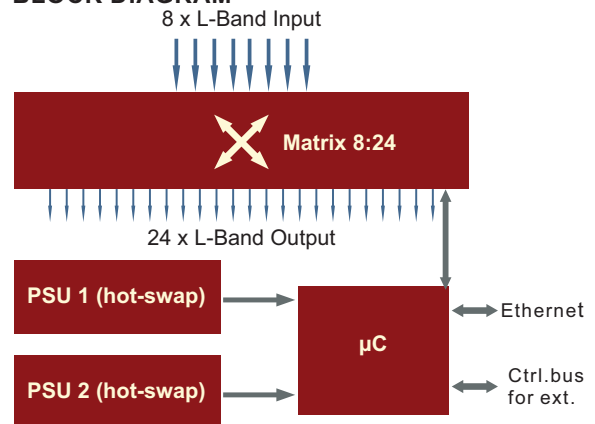
The FlexLink S2B is equipped with a front-side LC-Display and keypads for user-friendly local configuration. Remote configuration can be done via its rear-side Ethernet-Interface or RS232-interface (http/WebGUI, SNMP) while it can also be integrated into a management and control system (NMS or M&C) via SNMP.

The FlexLink S2B is an ideal platform for flexible signal switching/routing applications and perfectly suited for integration into Teleports, Satellite Earth-Stations as well as Broadcasting and CATV/IPTV headend architectures.

FEATURES & BENEFITS

➢ Space saving 1RU/19" rack-mount design

➢ Extended L-Band frequency 850 - 2450MHz, ready for KA-Band and HTS applications

➢ Low power-consumption and heat generation

➢ 8:24 switching/routing configuration

➢ Available with 50Ohm or 75Ohm impedance/connectors

➢ In- and output combinations freely configurable

➢ No routing limitations

➢ Features variable gain-control (@ any input)

➢ Supports switchable LNB-supply 13/15/18V, 22kHz, 400mA current monitoring (@ any input)

➢ RF power monitoring (@ any input), power detection 60dB dynamic range with programmable alarm window

➢ Port matching, all ports 16dB typ.

➢ Superiour RF performance, signal quality and stability

➢ 1:1 redundant power supply

➢ Front side LC-Display & keypads for local configuration

➢ Remote control via Ethernet-interface (http./WebGUI, SNMPv2c)

➢ Admin. & User login protection

BLOCK DIAGRAM

8 x L-Band Input

Matrix 8:24

24 x L-Band Output

PSU 1 (hot-swap)

PSU 2 (hot-swap)

µC

Ethernet

Ctrl.bus for ext.

ORDER INFORMATION

➢ **FlexLink S2A-50S:**	8:24 L-Band Switch Matrix, 50 Ohm SMA(f)
➢ **FlexLink S2A-50B:**	8:24 L-Band Switch Matrix, 50 Ohm BNC(f)
➢ **FlexLink S2B-75F:**	8:24 L-band Switch Matrix, 75Ohm F(f)
➢ **FlexLink S2B-75B:**	8:24 L-Band Switch Matrix, 75 Ohm BNC(f)

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TECHNICAL SPECIFICATIONS

➤ **Dimensions/unit:**	1RU/19" rack-mount
➤ **Weight/unit:**	approx. 6 kg
➤ **Power-supply:**	85...230V, 50/60Hz, 1:1 redundant
➤ **Power-consumption:**	<22W (without LNB-supply)
➤ **Frequency range:**	850 - 2450MHz (extended L-Band)
➤ **Capacity:**	8:24 (8 x input / 24 x output)
➤ **Connectors (IN/OUT):**	50Ohm SMA(f)/BNC(f) or 75Ohm F(f)/BNC(f)
➤ **RF Input power:**	-10dBm, 0dBm max.
➤ **Input level control:**	Monitoring threshold adjustment
➤ **Variable gain-control:**	±10dB (@ any input)
➤ **Input Return loss:**	16dB typ.
➤ **Output Return loss:**	16dB typ.
➤ **Isolation**	≥50dB typ. *(Input/Input, Input/Output, Output/Output)*
➤ **Noise figure:**	≤6dB in unit

➤ **Insertion loss:**	0dB typ., ±1,0dB max.
➤ **Output P1dB:**	+10dBm
➤ **Frequency response:**	±1.0dB typ, ±1.5dB max.
➤ **IMA3 @ -10dBm**:	> -50dBc
➤ **RF power monitoring:**	60dB dynamic range (@ any input) with configurable alarm window
➤ **Switchable LNB supply:**	13/15/18V; 22kHz, 400mA (@ any input)
➤ **Local control:**	LC-Display, keypads
➤ **Remote control:**	100MBit Ehternet-Interface WEB-GUI (http./SNMPv2c)
➤ **Environmental:**	ETSI En300, Part 1-3, Class 3.1
➤ **EMC / Safety:**	EN 50083-2/EN 60950-1
➤ **Operating temperature:**	0...45°
➤ **Storage temperature:**	-10...70°C
➤ **Humidity:**	90% non condensing
➤ **RoHS:**	Compliant

APPLICATION EXAMPLE

8 x L-Band (e.g 2 Quad LNB´s)

FlexLink-S2B
8:24 Switch Matrix

µX, Web Interface SNMP

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Rev 0GËÍ