toner
cable equipment, inc.
www.tonercable.com

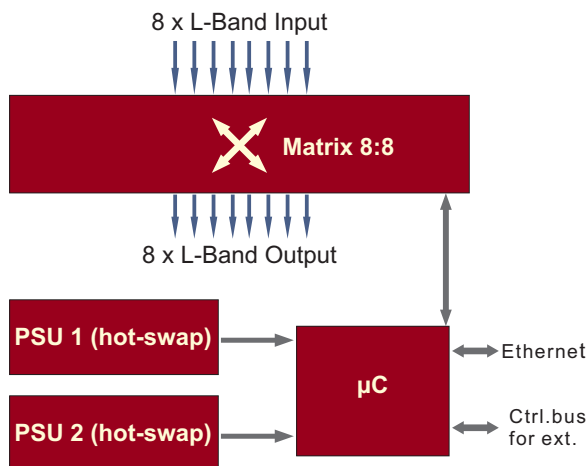# FlexLink S3-88
L8:8 L-Band Matrix Switch

GENERAL

The FlexLink S3-88 in 1RU/19" rack-mount design represents a professional 8:8 L-Band Switch-Matrix.

The unit features an efficient, reliable and space saving solution for today´s and future L-Band signal management applications and allows to switch/route 8 inputs to 8 outputs without limitations and interferences (any input can be routed to one or all outputs), while all combinations of inputs and outputs are freely configureable locally and remotely. The unit features switchable LNB-supply, variable gain-adjustment, RF power monitoring as well as 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 S3-88 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/WEB-GUI, SNMP) while it can also being integrated into a management and control system (NMS or M&C) via SNMP. The FlexLink S3-88 is an idial platform for flexible signal switching/routing and perfectly suited for integration into Teleports, Satellite Earth-Stations as well as Broadcasting and Broadband architectures.

FEATURES

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

➢ Low power-consumption & heat generation

➢ Professional L-Band switching/routing solution

➢ 8 L-Band inputs / 8 L-Band outputs

➢ Available with 50Ohm SMA(f) or 75Ohm F(f) connectors

➢ In- and output combination freely configurable

➢ No routing limitation

➢ Variable gain adjustment -20dB...+10dB (@ every input)

➢ RF power monitoring (@ any input)

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

➢ Superiour RF perfornance and stability

➢ 1:1 redundant dual power supply (hot swappable)

➢ Front side LCD & keypads for local configuration

➢ Rear side ethernet-interface & RS232-interface
for remote configuration (WEB, SNMPv2c)

BLOCK DIAGRAM

8 x L-Band Input

Matrix 8:8

8 x L-Band Output

PSU 1 (hot-swap)

PSU 2 (hot-swap)

µC

Ethernet

Ctrl.bus
for ext.

ORDER INFORMATION

➢ **FlexLink- S3-88:**   L-Band Switch-Matrix, 8:8
50Ohm SMA(f)

➢ **FlexLink- S3-88-75:**   L-Band Switch-Matrix, 8:8
75Ohm F(f)

FlexLink S3-88
8:8 L-Band Matrix Switch

TECHNICAL SPECIFICATION

➤ **Dimensions:**	1RU/19" rack mount
➤ **Weight/unit:**	approx. 7kgs
➤ **Power-supply:**	85...230V, 50/60Hz (1:1 redundant; hot-swappable)
➤ **Power-consumption:**	<10W (without LNB-supply)
➤ **Frequency range:**	950…2150MHz
➤ **L-Band Inputs:**	8
➤ **L-Band Outputs:**	8
➤ **Impedance/Connectors:**	50Ohm SMA(f) or 75Ohm F(f)
➤ **Variable gain adjustm.:**	-20db...+10dB (@ every input)
➤ **RF Input power:**	-70dBm, 0dBm max.
➤ **Max. RF output-power:**	+10dBm
➤ **Input Return loss:**	14dB min, 16dB typ.
➤ **Output Retrurn loss:**	14dB min, 16dB typ.
➤ **Isolation**	>60dB min. (Input/Input, Intput/Output, Output/Output)
➤ **Output-IP3:**	+20dBm
➤ **Noise:**	< 6dB in unit (@ full gain)

➤ **Insertion loss:**	0 dB typ.
➤ **Frequency response:**	± 1dB typ.
➤ **Output P1:**	+10dBm
➤ **IMA3 @ -10dB**m:	> -50dBc
➤ **RF power monitoring:**	- 60dB dynamic range (@ every input)
➤ **Switchable LNB supply:**	13/15/18V/22kHz, 400mA (@ every input)
➤ **Local control:**	LC-Display, keypads
➤ **Remote control:**	100 Mbit Ethernet-Interface, RS232 (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 S3-88
8:8 Switch-Matrix

µX, Web Interface SNMP

IRD N° 1 - - - - - - - - - - **IRD N° 8**