SLC4124 Standard LNB/LNA Controller

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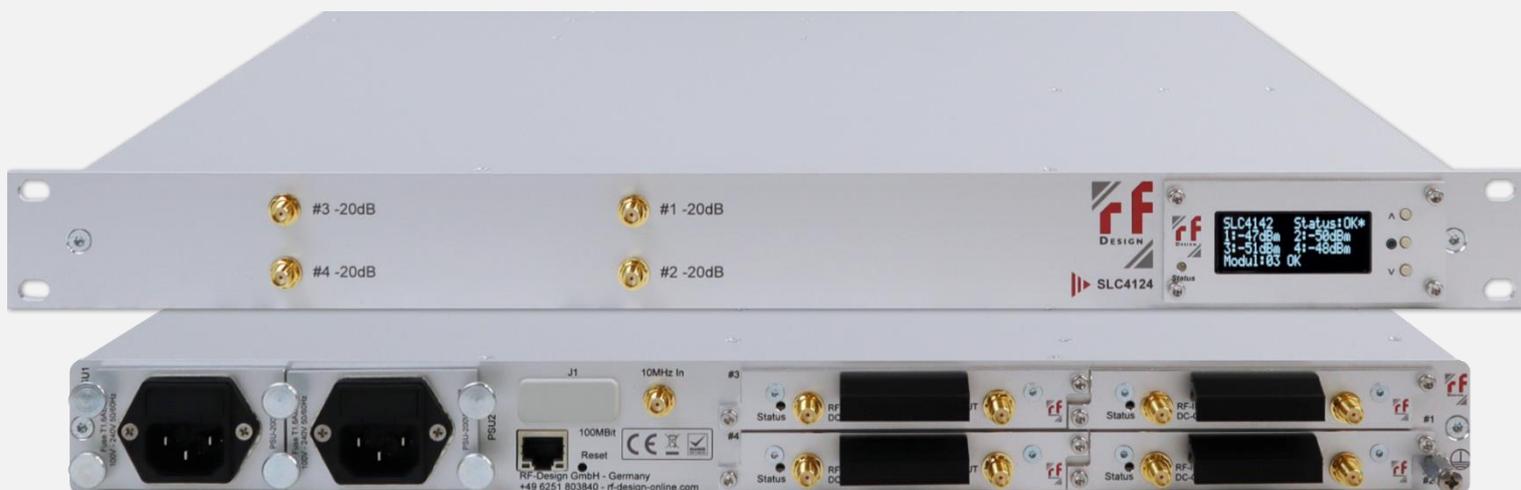
BETTER MADE IN GERMANY

SLC4124 Standard QUAD LNB/LNA supply unit

The SLC4124 is a standard LNB power supply unit featuring four internal Bias-Tees/Directional couplers with 13V, 15V, 18V and 24V with 22kHz supply for max. 4 LNB´s. The unit allows to configure all LNB´s individually, also via Web-Interface.

The SLC4124 is available in a 1RU/19" rack mount chassis and also provides 1:1 hot swappable power supply redundancy. Furthermore, the unit offers RF power monitoring for every Bias-Tee via a 20dB measuring port located at the front of the unit.

Local control can be done with front panel LC-Display, keypads and LED´s while remote access, monitoring and control can be done via 10/100Mbit LAN-Interface SNMP and WebGui.

The unit is ideally suited for LNB supply purposes in Satellite-, broadcast and broadband communication architectures like Teleports, Earth Stations, broadcast facilities and cable headend platforms.
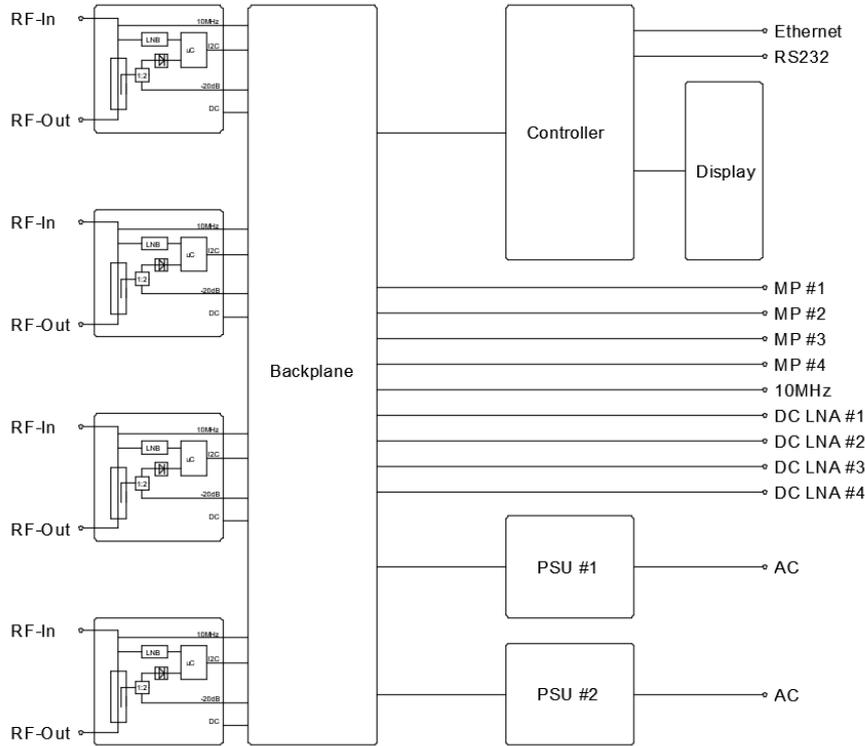

FEATURES & BENEFITS

- Space saving 1RU/19" design
- LNB supply for up to 4 LNB´s
- Frequency range 950 – 2150MHz
- 4 monitoring ports at the front (-20dB)
- 4 internal Bias-Tees and Directional couplers
- Supports 13V, 15V, 18V with 22kHz, 450mA max.
- Option 24V and 22kHz, 450mA max.
- LNB Current Draw Monitoring
- LNB DC Feed to rf-inputs or switchable to backplane for LNA
- 10MHz insertion on rf-inputs, provided via rear side connector
- 1:1 redundant power supply (hot swappable)

- Supported LNB's (Band 1–8 Selection 13/15/18/24V&22kHz:
  - SMW C-Band LNB all types
  - SMW X-Band LNB all types
  - SMW KU-Band LNB all types
  - SMW KA-Band LNB all types
  - SMW Q-Band LNB all types
- Front side control via LC-Display and keypads
- LED´s indicating LNB power
- Remote configuration via 10/100Mbit
- LAN-Interface SNMP and WebGui http
- Wide operating temperature range -10 to +70°

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SCHEMATIC

TECHNICAL SPECIFICATIONS 1RU CHASSIS

Dimensions:	1RU/19" rack mount, 400mm deep
Power Supply:	85 – 230V, 50/60Hz, 1:1 redundant (hot swappable)
Power Consumption:	<60W
RS232 Service Port:	DB9-female
Module Slots rear side:	4 independent modules rear side
Measuring Port:	4 x -20dB Front Side SMA(f)
10MHz Feed:	Via SMA Connector rear side to all modules/rf-inputs. +6dBm typ. +8dBm max.
Alarm/Events:	LNB-Current, RF-Power via adjustable Threshold
Access/Control:	LED´s/keypads and Remote Interface 100MBit SNMP and WebGui
Operating Temperature:	-10°C to +70°C
Storage Temperature:	-40°C to +80°C
Humidity:	90%, non-condensing
RoHS:	Compliant
MTBF:	390khours MIL-HDBK-217F (25℃)
Environmental Conditions:	ETS 300019 Part 1-3 Class 3.1E
IP Rating:	Indoor Unit, IP 20

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TECHNICAL SPECIFICATIONS RF-MODULE

Frequency Range:	L-Band 950 – 2150MHz and Ext. L-Band 850 – 2450MHz
Insertion Loss Main Path:	< 1,0dB@2150MHz , <1,5dB@2450MHz
Return Loss Main Path:	>18dB
Measuring Port:	4 x -20dB Front Side SMA(f)
Return Loss Measuring Port:	>16dB
Frequency Response:	±0, 5dB
Impedance Main Path:	50Ohm SMA(f)
RF-Power Monitoring:	+10dBm to -50dBm
RF-Power Monitoring Accuracy:	±1dB typ.
LNB-Power:	13V, 15V, 18V, 24V (Option), 24V+22kHz (Option)
	Supported LNB's (Band 1–8 Selection 13/15/18/24V&22kHz (with Option):
	⫸ SMW C-Band LNB all types
	⫸ SMW X-Band LNB all types
	⫸ SMW KU-Band LNB all types
	⫸ SMW KA-Band LNB all types
	⫸ SMW Q-Band LNB all types
LNB-Power max current:	400mA each, short cut protected @ 450mA
LNB-Current monitoring:	0 – 500mA with adjustable threshold window
LNB Power Feed:	Switchable between RF-Input (for LNB) or rear side (for LNA) – with SLC4124-LNA-Power-15 only (Option
10MHz Feed:	Via SMA Connector rear side to all modules/rf-inputs. +6dBm typ. +8dBm max.
Alarm/Events:	LNB-Current, RF-Power via adjustable Threshold
Operating Temperature:	-10°C to +70°C
Storage Temperature:	-40°C to +80°C
Humidity:	90%, non-condensing
RoHS:	Compliant
MTBF:	390khours MIL-HDBK-217F (25℃)
Environmental Conditions:	ETS 300019 Part 1-3 Class 3.1E

LNA POWER MODULE

Type	Short Description
LNA Power:	4 x 15V/1A each, rear side connector
DC-Monitoring;	0 – 1A with Alarm Window

ORDER INFORMATION

Type	Type-No.	Short Description
SLC4124-4-50S	9001492	LNB Controller 1RU 19", Redundant Power supply, Local Controller and Ethernet 100MBit Interface SNMP/http, 4 x Module LNB-Controller 50Ohm SMA(f), Low Loss directional Coupler, RF-Power Measurement, LNB DC Power 13V, 15V, 18V, 24V, 22kHz, 10MHz Feed
SLC4124-Chassis	9001401	LNB/LNA-Controller 1RU 19" chassis, Redundant Power supply
SLC4124-RF-Module-50S	9001416	Standard LNB-Controller Module 50Ohm SMA(f)
SLC4124-LNA-Power-15	9001417	4 x LNA DC Output rear side 15V / 1A
SLC4124-LNB24V22kHz	9001478	24V and 22kHz Option