



# SLC4124 Standard LNB/LNA Controller

...designed for perfect signals



## 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.

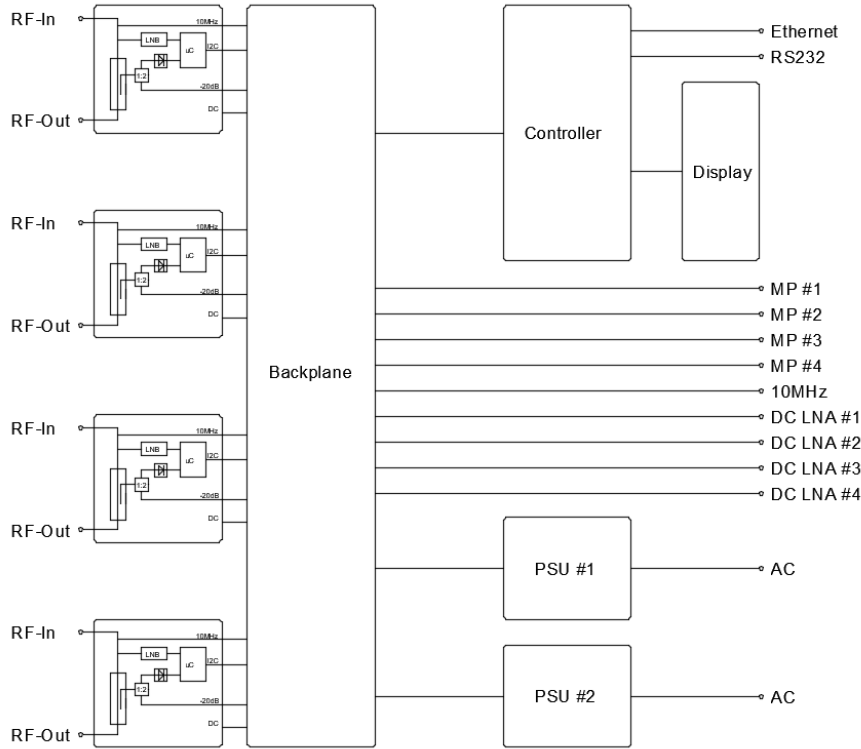


### FEATURES & BENEFITS

- ▶ 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°

**SCHEMATIC**



**TECHNICAL SPECIFICATIONS 1RU CHASSIS**

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



### TECHNICAL SPECIFICATIONS RF-MODULE

<b>Frequency Range:</b>	L-Band 950 – 2150MHz and Ext. L-Band 850 – 2450MHz
<b>Insertion Loss Main Path:</b>	< 1,0dB@2150MHz , <1,5dB@2450MHz
<b>Return Loss Main Path:</b>	>18dB
<b>Measuring Port:</b>	4 x -20dB Front Side SMA(f)
<b>Return Loss Measuring Port:</b>	>16dB
<b>Frequency Response:</b>	±0, 5dB
<b>Impedance Main Path:</b>	50Ohm SMA(f)
<b>RF-Power Monitoring:</b>	+10dBm to -50dBm
<b>RF-Power Monitoring Accuracy:</b>	±1dB typ.
<b>LNB-Power:</b>	13V, 15V, 18V, 24V (Option), 24V+22kHz (Option) Supported LNB's (Band 1–8 Selection 13/15/18/24V&22kHz (with Option): <ul style="list-style-type: none"> <li>▶ SMW C-Band LNB all types</li> <li>▶ SMW X-Band LNB all types</li> <li>▶ SMW KU-Band LNB all types</li> <li>▶ SMW KA-Band LNB all types</li> <li>▶ SMW Q-Band LNB all types</li> </ul>
<b>LNB-Power max current:</b>	400mA each, short cut protected @ 450mA
<b>LNB-Current monitoring:</b>	0 – 500mA with adjustable threshold window
<b>LNB Power Feed:</b>	Switchable between RF-Input (for LNB) or rear side (for LNA) – with SLC4124-LNA-Power-15 only (Option)
<b>10MHz Feed:</b>	Via SMA Connector rear side to all modules/rf-inputs. +6dBm typ. +8dBm max.
<b>Alarm/Events:</b>	LNB-Current, RF-Power via adjustable Threshold
<b>Operating Temperature:</b>	-10°C to +70°C
<b>Storage Temperature:</b>	-40°C to +80°C
<b>Humidity:</b>	90%, non-condensing
<b>RoHS:</b>	Compliant
<b>MTBF:</b>	390khours MIL-HDBK-217F (25°C)
<b>Environmental Conditions:</b>	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-LNB24V22kHz	9001478	24V and 22kHz Option