



# SLC4124 Standard LNB/LNA Controller

...designed for perfect signals



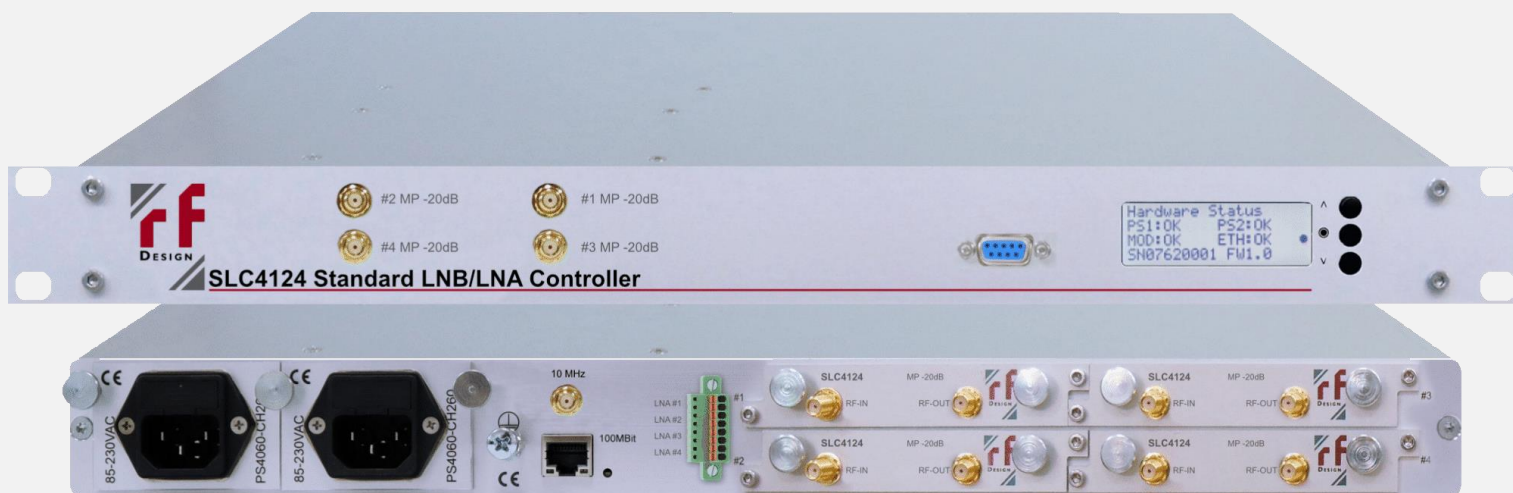
## SLC4124 Standard QUAD LNB/LNA supply unit

The SLC4124 is a standard LNB power supply unit featuring four internal Bias-Tees/Directional couplers with 13V, 18V and 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



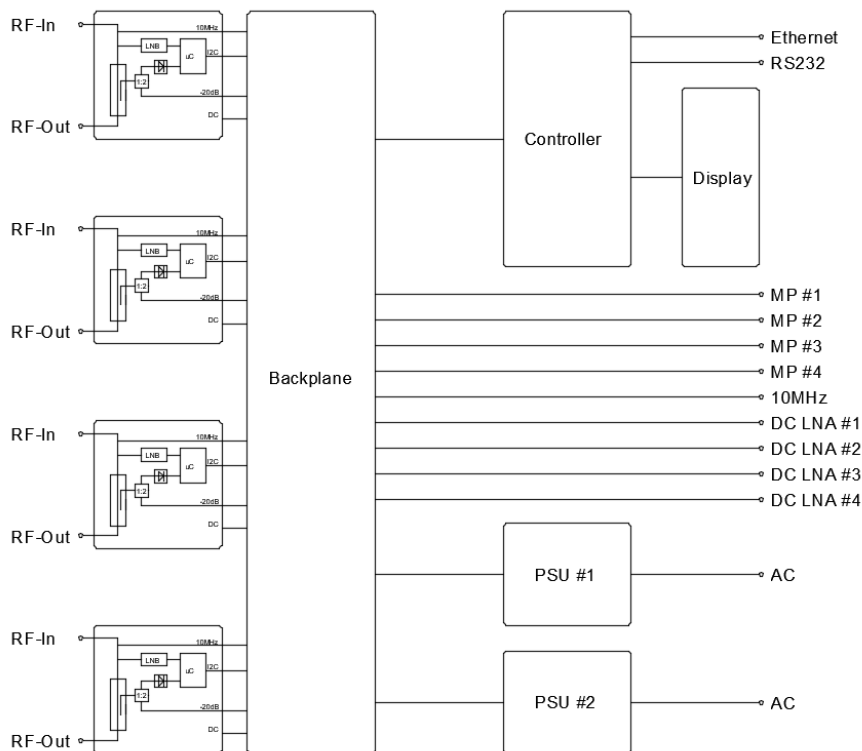
Picture similar

### 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, 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

## 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-inpus        |
| <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 50°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                             |

## 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 max. @2450MHz                                                                                                                                                                                                                                                                                        |
| <b>Return Loss Main Path:</b>        | >20dB                                                                                                                                                                                                                                                                                                       |
| <b>Measuring Port:</b>               | 4 x -20dB Front Side SMA(f)                                                                                                                                                                                                                                                                                 |
| <b>Return Loss Measuring Port:</b>   | >16dB                                                                                                                                                                                                                                                                                                       |
| <b>Frequency Response:</b>           | ±0,25dB                                                                                                                                                                                                                                                                                                     |
| <b>Impedance Main Path:</b>          | 50Ohm SMA(f)                                                                                                                                                                                                                                                                                                |
| <b>RF-Power Monitoring:</b>          | +20dBm to -50dBm                                                                                                                                                                                                                                                                                            |
| <b>RF-Power Monitoring Accuracy:</b> | ±1dB typ.                                                                                                                                                                                                                                                                                                   |
| <b>LNB-Power:</b>                    | 13V, 15V, 18V, 24V, 22kHz<br>Supported LNB's (Band 1–8 Selection 13/15/18/24V&22kHz:<br><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> </ul> SMW Q-Band LNB all types |
| <b>LNB-Power max current:</b>        | 450mA each, short cut protected @ 500mA                                                                                                                                                                                                                                                                     |
| <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)                                                                                                                                                                                                                                                |
| <b>10MHz Feed:</b>                   | Via SMA Connector rear side to all rf-inputs.                                                                                                                                                                                                                                                               |
| <b>Alarm/Events:</b>                 | LNB-Current, RF-Power via adjustable Threshold                                                                                                                                                                                                                                                              |
| <b>Operating Temperature:</b>        | -10°C to 50°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 OWER 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-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                       |