

...designed for perfect signals

## LNB Redundancy Controller LRC1142

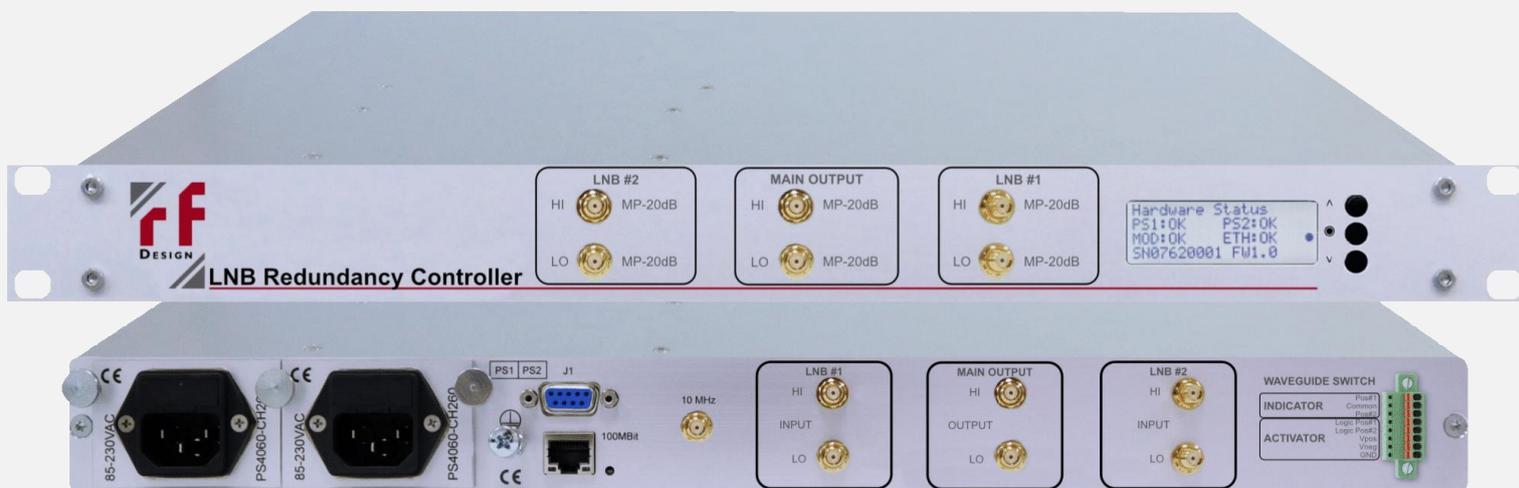
The LNB Redundancy Controller is a switching and managing device for redundant LNB operation in a professional environment. Two LNB's can be operated and powered independent.

The current consumption and the rf power is continuously monitored from each polarisation and from each LNB.

The unit allows to configure all LNB's individually, also via Web-Interface.

The LNB Redundancy Controller 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.



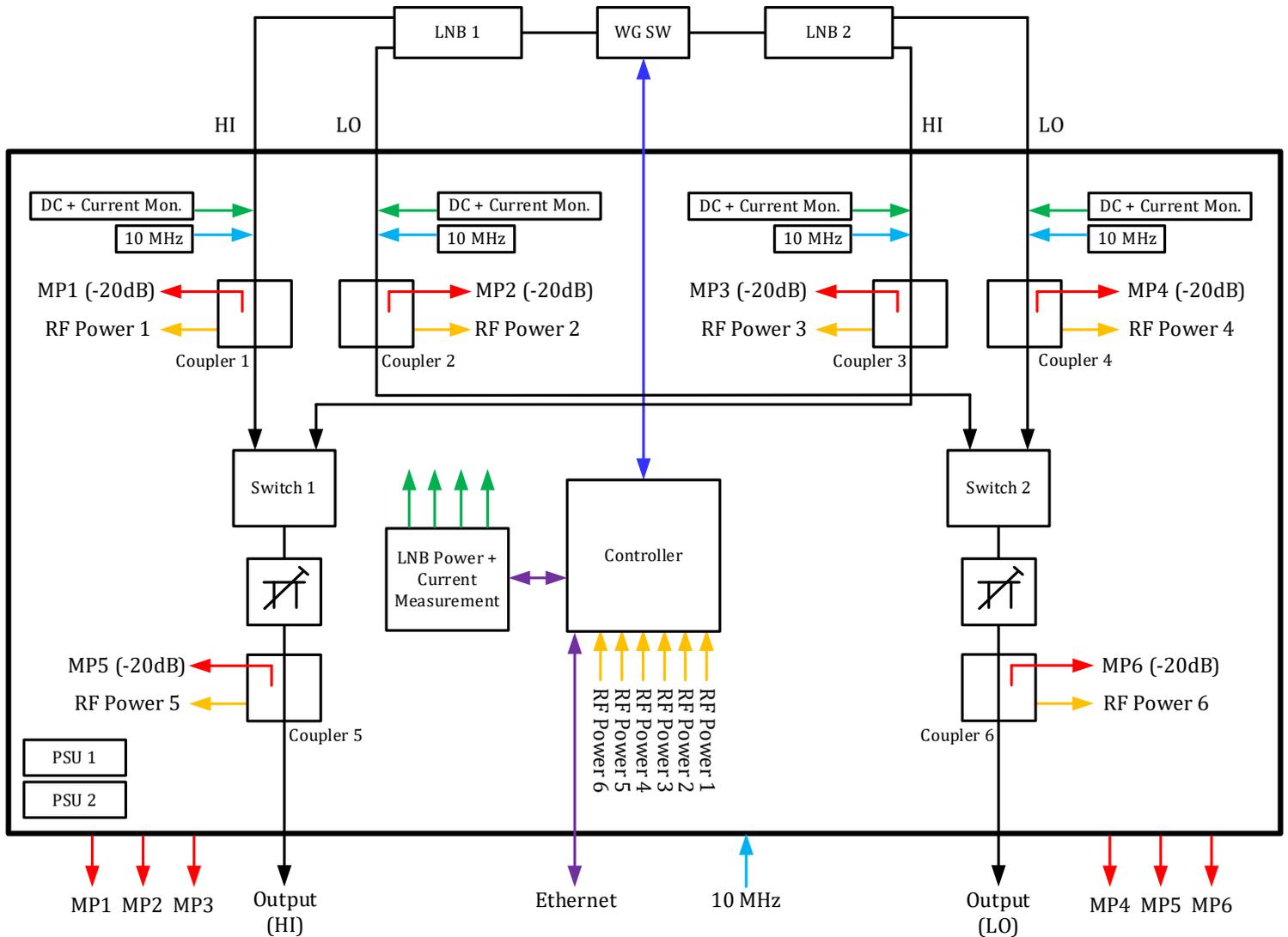
Picture similar, N-Connectors and BNC-Connectors not shown

### FEATURES & BENEFITS

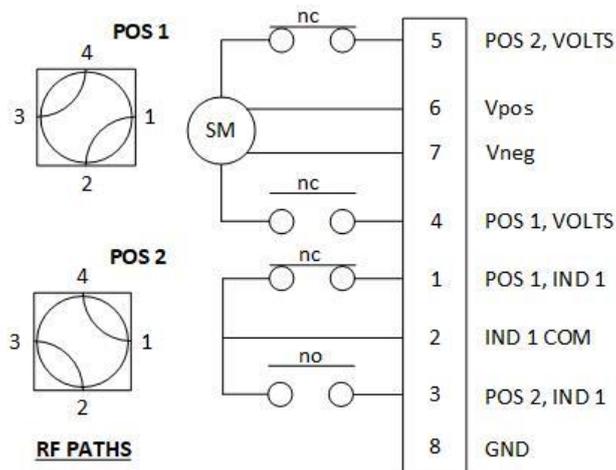
- ▶ Space saving 1RU/19" design
- ▶ LNB supply for up to 2 LNB's, independent
- ▶ Frequency range 850 – 2450MHz
- ▶ 6 monitoring ports at the front (-20dB)
- ▶ 6 internal Bias-Tees and Directional couplers
- ▶ Supports 13V/15V/18V/24V and 22kHz, 450mA max.
- ▶ LNB Current Draw Monitoring
- ▶ 10MHz insertion on rf-inputs, provided via rear side connector
- ▶ Output Attenuator 0 to -30dB
- ▶ RF-Power Monitoring at all inputs and outputs
- ▶ Waveguide Switch Management

- ▶ 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
- ▶ Automatic and Manual control
- ▶ Front side control via LC-Display and keypads
- ▶ Remote configuration via 10/100Mbit
- ▶ LAN-Interface SNMP and WebGui http
- ▶ 1:1 redundant power supply (hot swappable)

**SCHEMATIC**



**SCHEMATIC CONNECTOR WAVEGUIDE SWITCH**





**TECHNICAL SPECIFICATIONS**

<b>Dimensions Indoor:</b>	1RU/19" rack mount, 260mm deep
<b>Dimensions Outdoor:</b>	420 x 320 x 310mm, Temperature managed fan, rain shielding, IP65, Cabling Bottom side
<b>Power Supply:</b>	85 – 230V, 50/60Hz, 1:1 redundant, <10W without LNB
<b>Frequency Range:</b>	850MHz – 2450MHz
<b>RF-Input Ports Rear Side:</b>	1:1 LNB's, SMA 50Ohm(f) / N 50Ohm(f) / BNC 50Ohm(f)
<b>RF-Output Ports Rear Side:</b>	Output of internal RF-Switch, separate with SMA 50Ohm(f) / N 50Ohm(f) / BNC 50Ohm(f)
<b>Waveguide Switch Control Rear Side:</b>	8 pol. Actuator and Sensor, 24V DC, 1A
<b>Measuring Port Front Side:</b>	6 x -20dB Front Side SMA(f) Indoor Unit, Via Panel in the Outdoor Box
<b>10MHz Feed:</b>	Via SMA Connector rear side (indoor) or internal (box) to all inputs, switchable to all inputs
<b>Insertion Loss 850 – 2450MHz:</b>	2dB typ, 3dB max.
<b>Input/Output Return Loss:</b>	14dB min. , 16dB typ.
<b>Input/Output Isolation:</b>	>50dB
<b>LNB DC Voltage Every Input:</b>	OFF/13V/15V/18V/24V & 22kHz, 450mA max. 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
<b>Output Attenuator:</b>	0 to -30dB every output
<b>Maximum Input RF-Power:</b>	Max +10dBm
<b>Alarm/Events:</b>	LNB-Current Monitoring Upper Limit / Lower Limit & RF-Power via adjustable Threshold
<b>Access/Control:</b>	LED's/keypads Frontside & Remote Interface 100MBit SNMP and WebGui
<b>Operating Temperature:</b>	-10°C to 50°C
<b>Storage Temperature:</b>	-10°C to 70°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

**ORDER INFORMATION**

Type	Type-No.:	Short Description
LNB Redundancy Controller LRC1142-50S	9001451	1RU Indoor Version, 1:1 LNB Redundancy Controller Unit with Waveguide Switch Control, 50Ohm SMA(f)
LNB Redundancy Controller LRC1142-50N	9001455	1RU Indoor Version, 1:1 LNB Redundancy Controller Unit with Waveguide Switch Control, 50Ohm N(f)
LNB Redundancy Controller LRC1142-50B	9001456	1RU Indoor Version, 1:1 LNB Redundancy Controller Unit with Waveguide Switch Control, 50Ohm BNC(f)
LNB Redundancy Controller LRC1142ODB	9001452	Outdoor Version, 1:1 LNB Redundancy Controller Unit with Waveguide Control