



LRC1142 - LNB Redundancy Controller

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LNB Redundancy Controller LRC1142

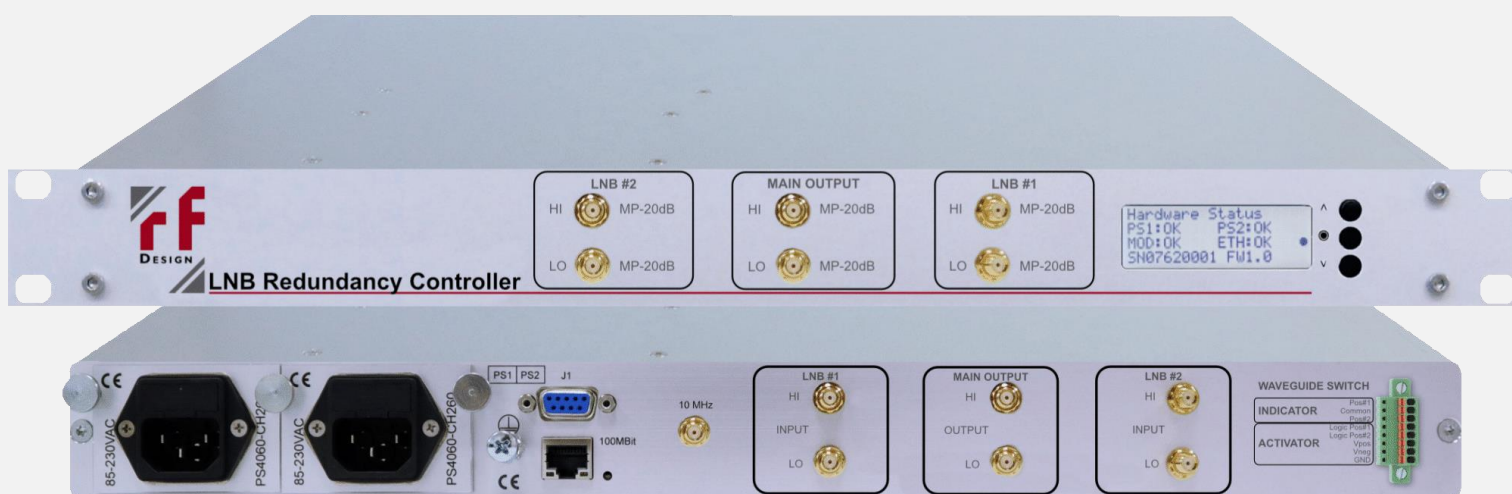
The LNB Redundancy Controller is a switching and managing device for redundant LNB operation in a professional environment. Two LNB's can be operated and powered independent.

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)



TECHNICAL SPECIFICATIONS

Dimensions Indoor:	1RU/19" rack mount, 260mm deep
Dimensions Outdoor:	420 x 320 x 310mm, Temperature managed fan, rain shielding, IP65, Cabling Bottom side
Power Supply:	85 – 230V, 50/60Hz, 1:1 redundant, <10W without LNB
Frequency Range:	850MHz – 2450MHz
RF-Input Ports Rear Side:	1:1 LNB's, SMA 50Ohm(f) / N 50Ohm(f) / BNC 50Ohm(f)
RF-Output Ports Rear Side:	Output of internal RF-Switch, separate with SMA 50Ohm(f) / N 50Ohm(f) / BNC 50Ohm(f)
Waveguide Switch Control Rear Side:	8 pol. Actuator and Sensor, 24V DC, 1A
Measuring Port Front Side:	6 x -20dB Front Side SMA(f) Indoor Unit, Via Panel in the Outdoor Box
10MHz Feed:	Via SMA Connector rear side (indoor) or internal (box) to all inputs, switchable to all inputs
Insertion Loss 850 – 2450MHz:	2dB typ, 3dB max.
Input/Output Return Loss:	14dB min. , 16dB typ.
Input/Output Isolation:	>50dB
LNB DC Voltage Every Input:	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
Output Attenuator:	0 to -30dB every output
Maximum Input RF-Power:	Max +10dBm
Alarm/Events:	LNB-Current Monitoring Upper Limit / Lower Limit & RF-Power via adjustable Threshold
Access/Control:	LED's/keypads Frontside & Remote Interface 100MBit SNMP and WebGui
Operating Temperature:	-10°C to 50°C
Storage Temperature:	-10°C to 70°C
Humidity:	90%, non-condensing
RoHS:	Compliant
MTBF:	390khours MIL-HDBK-217F (25°C)
Environmental Conditions:	ETS 300019 Part 1-3 Class 3.1E

ORDER INFORMATION

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