RLC2716A

...designed for perfect signals

BETTER MADE IN GERMANY

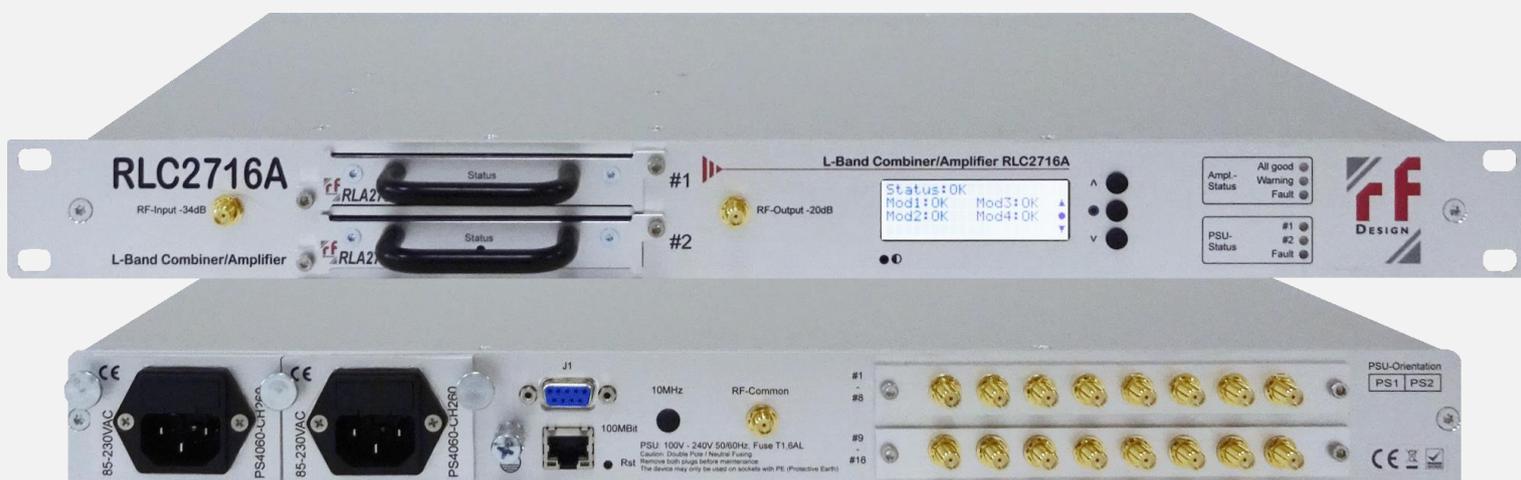## 1+1 redundant L-Band Line Amplifier with 16:1 Combiner

The RLC2716A is a 1+1 redundant operating line amplifier with a rear-side integrated 16:1 L-Band combiner built into a compact 1RU/19" rack mount chassis. The unit features 16:1 L-Band combining while the two redundant operating amplifier modules allow variable gain adjustment so to reach best RF performance within the network.

The redundancy switching between these two amplifier modules is done nearly interruption free within a switchover time of less than 5ms.

Besides the variable gain adjustment (MGC/AGC) and 16:1 combining the unit also features slope-equalization, 10MHz external reference, RF power monitoring as well as 1:1 redundant power supply (hot-swappable).

The unit has a front-side LC-Display/keypads for user-friendly local configuration while front-side status LED´s indicating amplifier and power supply status. Remote control and configuration can be done via its rear-side Ethernet-Interface (WebGUI, SNMP). The RLC2716A is available with 50Ohm SMA(f) or 75Ohm F(f) connectors (see order-information).

The RLC2716A features a flexible and compact RF distribution solution and is perfectly suited for applications in Teleports, Satellite Earth Stations, as well as Broadcast- and Broadband facilities wherever accurate RF power, highest stability and availability is necessary.

FEATURES & BENEFITS

- Space saving and compact 1RU/19" rack mount design
- 1+1 operating line amplifiers & 16:1 L-Band combiner in one unit
- 1+1 redundant hot-standby operating amplifier modules
- Less than 5ms switchover between amplifier 1 & 2
- Variable gain-adjust -14 to +13dB (MGC/AGC), 1dB steps
- Supports slope-equalization 0 to 7dB, 1dB steps
- Front-side input & output monitoring-port (-34dB & -20dB respectively)

- RF-power monitoring (Input/Output) for both amplifier-modules
- Threshold alarm function and switchable output limiter
- 1:1 redundant power supply (hot-swappable)
- Local access & configuration via front side LC-Display/keypads
- Front side status LED´s indicating amplifier & power supply status
- Remote configuration via Ethernet-Interface, RS232/485 (WebGUI and SNMPv2c)

TECHNICAL SPECIFICATIONS

Dimensions:	1RU/19" rack mount, weight: approx. 7kgs.
Power Supply:	90 – 264V, 50/60Hz, 1+1 redundant (hot-swappable)
Power Consumption:	<10W
Frequency Range:	950 – 2150MHz (L-Band)
Input/Output Connectors:	50Ohm SMA(f) or 75Ohm F(f)
10MHz Reference External Input:	50Ohm SMA(f), rear side
Combiner Configuration:	16:1 rear side
Input/Output Return Loss:	15dB typ.
Frequency Response:	± 1,0dB typ. ± 1,5dB max.
Input Isolation:	≥23dB (@ 50Ohm), ≥20dB (@ 75Ohm)
Variable Gain Control:	-14 to +13dB (Acc. ± 0,25dB), 1dB steps (MGC/AGC)
Slope Equalization:	0 to 7dB, 1dB steps
Max. RF Output Power:	+23dBm
Noise Figure:	<20dB @ full gain
IMA3 @ +17dBm:	< -40dBc
1dB Compression Point:	+20dBm
Monitoring Port:	-34dB Input monitoring, -20dB Output monitoring, 50Ohm SMA(f), front-side
Output Limiter:	Adjustable -30dBm to +17dBm
Threshold Alarm Function:	Adjustable -40dBm to +17dBm
AGC Function:	Adjustable -30dBm to +17dBm, adjustable Lock-Window, adjustable Integration Time
Local Configuration:	LC-Display/keypads
Remote Configuration:	RJ45 100Mbit Ethernet-Interface, RS232/485 (WebGUI, SNMPv2c)
Status LED´s:	Amplifier & PSU health status monitoring
MTBF/MTTR:	>400kHrs at 25°C / 24 hours
MTTF Alarm Function:	Power Supply MTTF Monitoring
Operating Temperature:	0°C to 45°C
Storage Temperature:	-10°C to 70°C
Humidity:	90%, non-condensing
RoHS:	Compliant

ORDER INFORMATION

Type	Type No.:	Short Description	I/O Connectors
RLC2716A-50S	9001046	1+1 redundant L-Band Line Amplifier with 16:1 Combiner	50Ohm SMA(f)
RLC2716A-75F	on request	1+1 redundant L-Band Line Amplifier with 16:1 Combiner	75Ohm F(f)*

*upon request only