

...designed for perfect signals

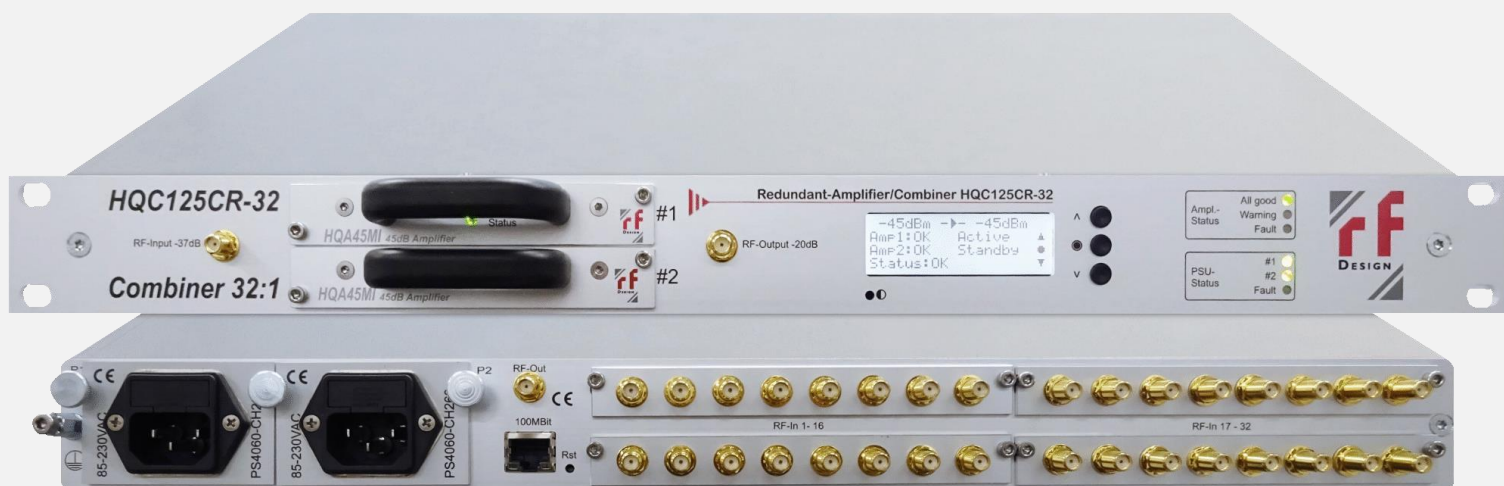
## 1+1 redundant L-Band Amplifier with modular combiners (max. 32:1)

The HQC125CR-32 is a 1+1 redundant operating line amplifier with rear-side slots for integration of max. 4 passive combiner modules (capacity 8:1 to max. 32:1), built into a compact 1RU/19" rack mount chassis. The unit features 8:1 to max. 32:1 L-Band combining while the two high-dynamic redundant operating amplifier modules allow variable gain control from 0 to 25dB as well as slope equalization 0 to 7dB so to reach best RF signal performance within the network.

The redundancy switching between the two amplifier modules is done nearly interruption free within a switchover time of less than 5ms. Besides the variable gain control (MGC/AGC) and max. 1:32 splitting the unit additionally supports slope-equalization, RF power monitoring, threshold alarming, 2 front panel monitoring ports as well as 1:1 redundant dual power supply.

The HQC125CR-32 has a front panel LC-Display/keypads for user-friendly local configuration while front panel status LED's indicating amplifier and power supply status. Remote configuration & monitoring can be done via its rear side Ethernet-Interface (WebGUI, SNMP).

This high quality unit comes with lots of beneficial functionalities, superior RF performance and excellent signal quality. It is an ideal fit for any RF distribution infrastructure where accurate RF power as well as highest signal stability and availability is necessary such as Teleports, Satellite Earth-Stations, Broadcast facilities and CATV/IPTV headend platforms.



### FEATURES & BENEFITS

- ▶ Space saving and compact 1RU/19" rack mount design
- ▶ 1+1 redundant L-Band amplifier and high quality modular combiner (8:1 expandable to 32:1) in one unit
- ▶ 1+1 redundant hot-standby operating amplifier modules
- ▶ Hot-swappable amplifier & combiner modules
- ▶ Less than 5ms switchover between amplifiers 1 & 2
- ▶ Variable gain-adjust 0 to 20dB, 1dB steps (MGC/AGC\*)
- ▶ Slope-equalization 0 to 7dB, 1dB steps
- ▶ RF-power monitoring for both amplifier-modules (Input & Output)

- ▶ Threshold alarm function and switchable output limiter
- ▶ 2 front panel monitoring ports -20dB (Input & Output)
- ▶ 10MHz external reference port, rear-side 50Ohm SMA(f)\*
- ▶ 1:1 redundant dual power supply (hot-swappable)
- ▶ Front side status LED's for amplifier & power supply status
- ▶ Local access & configuration via front side LC-Display/keypads
- ▶ Remote configuration via Ethernet-Interface, RS232/485\* (WebGUI, SNMPv2c)

\*Option on request



## TECHNICAL SPECIFICATIONS

<b>Dimensions:</b>	1RU/19" rack mount; 260mm deep
<b>Power Supply:</b>	90 – 264V, 50/60Hz, 1+1 redundant (hot-swappable)
<b>Power Consumption:</b>	<10W
<b>Frequency Range:</b>	950 – 2150MHz (L-Band)
<b>Input/Output Connectors:</b>	50Ohm SMA(f) or 75Ohm F(f)*
<b>Input/Output Return Loss:</b>	14dB typ.
<b>Amplifier Capacity:</b>	2 amplifiers (front side), 1+1 redundant operation
<b>Amplifier Switchover Time:</b>	<5ms
<b>Combiner Capacity:</b>	4 slots (rear side), max. 32:1 (increments of 8)
<b>Frequency Response:</b>	±1,5dB max.
<b>Variable Gain Control:</b>	0 to 20dB (accuracy ±0,25dB), 1dB steps, MGC/AGC
<b>Slope Equalization:</b>	0 to 7dB, 1dB steps
<b>RF Output Power:</b>	+23dBm max.
<b>Noise Figure:</b>	<20dB @ 25dB gain
<b>Spurious Free Dynamic Range:</b>	< -76dBm
<b>IMA3 @ +17dBm:</b>	< -40dBc typ.
<b>Output IP1:</b>	+23dBm
<b>Isolation:</b>	≥20dB min.
<b>I/O Monitoring Ports:</b>	-40dB for input -20dB for output, 50Ohm SMA(f), front-panel
<b>Threshold Alarm:</b>	Adjustable -40dBm to +10dBm
<b>Output Limiter:</b>	Adjustable -40dBm to +17dBm
<b>10MHz Reference:</b>	External, rear-panel, 50Ohm SMA(f)*
<b>Local Access/Configuration:</b>	Front-panel LC-Display/keypads
<b>Remote Access/Configuration:</b>	100Mbit Ethernet-Interface (WebGUI, SNMPv2c), RS232** or RS485**
<b>Status LED's:</b>	Amplifier & Power supply monitoring
<b>Operating Temperature:</b>	0°C to 45°C
<b>Storage Temperature:</b>	-10°C to 70°C
<b>Humidity:</b>	90%, non-condensing
<b>RoHS:</b>	Compliant

\*Option / \*\*upon request only

## ORDER INFORMATION

Type	Type-No.:	Short Description	I/O Connectors
HQC125CR-32	9001016	1+1 redundant L-Band line amplifier with 2 x Amplifier Module HQA43M01, including 1 x 8:1 combiner (4 slots f. 8-way combiner module, max. 32:1 combiner capacity)	50Ohm SMA(f)
HQC125CR-32-75*	on request		75Ohm F(f)

### Splitter/Combiner Modules

Type	Type-No.:	Short Description	I/O Connectors
HQS125R-SPL108M-50S	9001002	8-way passive splitter/combiner module, L-Band for HQS125CR-32 & HQC125CR-32 units	50Ohm SMA(f)
HQS125R-SPL108M-75F	9000943		75Ohm F(f)

## OPTIONS

Type	Type-No.:	Short Description
HQS125CR-10MHz	on request	10MHz external reference signal port rear side, 50Ohm SMA(f)

\*upon request only