

HQS125CR-32

1:1 redundant amplifier with modular splitters (max. 1:32)

Made
in
Germany

GENERAL

The HQS125CR-32 is a 1:1 redundant operating line amplifier with rear-side integrated passive splitter modules (1:8, 1:16, 1:24 or 1:32) built into a compact 1RU/19" rack-mount chassis. The unit features 1:8, 1:16; 1:24 or 1:32 L-Band splitting while the two high-dynamic redundant operating amplifier modules allow variable gain control 0...25dB as well as slope equalization 0...9dB so to reach best RF 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 adjustment (MGC/AGC) and max. 1:32 splitting the unit additionally supports slope-equalization, 10MHz external reference, RF power monitoring, threshold alarming, front panel monitoring ports, switchable LNB-supply as well as 1:1 redundant power supply.

The HQS125CR-32 has a front side 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 provides various advantageous functionalities, superior RF performance and excellent signal quality and is an ideal fit for any RF distribution infrastructure where accurate RF power, 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" design
- 1:1 operating line amplifier unit with max. 1:32 splitter capacity
- 1:1 redundant hot-standby operating amplifier modules
- Hot-swappable amplifier modules
- Less than 5ms switchover between amplifier 1 & 2
- Easy insertion of modular 8-way splitter modules, expandable from 1:8 to max. 1:32 (increments of 8)
- Hot swappable splitter modules
- Variable gain-adjust 0...25dB (MGC/AGC*), 1dB steps
- Supports slope-equalization 0...9dB, 1dB steps
- 2 Front panel monitoring ports (-20dB) for input & output
- 10MHz external reference port, rear-side 50Ohm SMA(f)*
- Permanent RF-power monitoring (Input/Output) for both amplifier-modules
- Threshold alarm function and switchable output limiter
- Switchable LNB-supply (13/15/18V, 22kHz, 400mA)*
- LNB current monitoring (400mA) with alarm shut-off)*
- 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 (WEB-GUI/SNMPv2c)

*Option

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TECHNICAL SPECIFICATIONS

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|-----------------------------------|---|----------------------------------|--|
| ➤ Dimensions: | 1RU/19", 260mm deep | ➤ IMA3 @ 0dBm: | < -40dBc |
| ➤ Power supply: | 85...230V, 50/60Hz 1:1 redundant (hot-swappable) | ➤ 1Output IP1: | +3dBm |
| ➤ Power consumption: | <10W | ➤ Output limiter: | adjustable -40dBm...+0dBm |
| ➤ Frequency range: | 950...2150MHz (L-Band) | ➤ Isolation: | ≥ 20dB min. |
| ➤ Input/Output connectors: | 50Ohm SMA(f) / 75Ohm F(f) | ➤ Monitoring ports: | -20dB (front-side), input & output |
| ➤ Amplifier capacity: | 2 amplifiers, 1:1 redundant operation | ➤ 10MHz reference*: | External, rear 50Ohm SMA(f)* |
| ➤ Splitter capacity: | max. 1:32 (increments of 8) | ➤ Switchable LNB-supply*: | 13/15/18V, 22kHz, 400mA* |
| ➤ Input Return-Loss: | 14dB min. | ➤ Access/Control: | LC-Display/keypads, 100Mbit Ethernet-Interface, RS232/485 (WebGUI, SNMPv2c) |
| ➤ Output Return loss: | 14dB min. | ➤ Status LED's: | Amplifier & PSU monitoring |
| ➤ Frequency response: | ±1,5dB max. | ➤ Operating temperature: | 0...45°C |
| ➤ Variable Gain adjust: | 0...20dB (Acc. ±0.25dB) 1dB steps (MGC/AGC*) | ➤ Storage temperature: | -10°C...70°C |
| ➤ Slope equalization: | 0...9dB, 1dB steps | ➤ Humidity: | 90% non-condensing |
| ➤ Max. RF output power: | +4dBm | ➤ RoHS: | Compliant |
| ➤ Noise figure: | <6dB @ 25dB gain | | |

*Option

ORDER INFORMATION

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|--------------------------------|---|
| ➤ HQS125CR-32: | 1:1 redundant L-Band line amplifier with max. 1:32 splitter capacity, 2 x Ampl. Module HQA43M01 (4 slots for 8-way splitter module), 50Ohm F(f) input, 75Ohm F(f) outputs, 1RU/19" rack-mount |
| ➤ HQS125CR-SPL108M-75F: | 1:8 passive splitter module, L-Band, 75Ohm F(f), max. 4 modules per unit |

OPTIONS

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|-----------------------|---|
| ➤ HQS125CR-AGC | AGC Function (Automatic Gain Control) |
| ➤ HQS125CR-LNB | LNB-supply 13/15/18VDC, 22kHz, 10MHz external reference injection |