

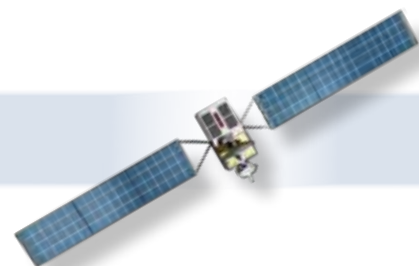


REDUNDANT L-BAND MULTIPLE LINE AMPLIFIER

19" Rack Hot-Swap Extended L-Band line Amplifier, 700 - 3000 MHz

Redundant
Line Amplifier
Extended L-Band

Mod. RAL10-40-X-X



- SCALABLE and MODULAR
- Up to N.10 Single AMPLIFIER or up to N.5 (1+1) or N.2 (4+1) **REDUNDANT**
 - RF FREQ. 700 - 3000 MHz • RF -20dB FRONT PWR MONITORING
 - MEETS OIP-3, RL and FLATNESS STRICT SPECIFICATIONS
 - HOT SWAP REDUNDANT PSU 1:1
 - HOT SWAP REDUNDANT AMPLIFIERS
 - FULL LNB POWERING
 - CONFIGURABLE VIA LOCAL DISPLAY & KEY BOARD
 - MONITORING and CONTROL VIA WEB GUI & SNMP

**INNOVATIVE
PERFORMANCE**

for: SYSTEM INTEGRATOR,
TELEPORT BROADCASTER,
CABLE NETWORK, GOVERNMENT
& MILITARY COMMUNICATIONS



The RAL-10 is a 19" Rack HOT SWAP EXTENDED L-BAND LINE AMPLIFIER, it allows to have up to 10 Amplifier Modules in a single chassis.

The double redundant intelligent PSU technology allows an immediate switch on the secondary power source.

The line Amplifier can be configured with 1:1 or 4:1 redundant switching modules, that automatically switch the signal in case of fault.

This technology ensures continuous quality of service and the hot swap Modules can be easily replaced by the local personal.

An advanced monitoring system provides all measurements and alarms locally or remotely via WEB or SNMP.

Ideal for Professional use, like Redundancy, Distribution & Monitoring, these are currently the best value for money.

TECHNICAL SPECIFICATIONS

RF SPECIFICATIONS:

- Freq. Range = 700-3000 MHz
- Positive Gain Slope = 4 dB
- Gain range = 10 to 40 dB, Steps 0,5 dB
- Noise Figure = 7 dB
- Connectors = F, BNC, N or SMA
- Impedance = 75 or 50 Ohm
- RF INPUT Level Range = - 5 to - 50 dBm
- Damage Input Level = > + 10 dBm
- Input R.L. = 16 dB typ., 14 dB min.
- Output R.L. = 16 dB typ., 14 dB min.
- Output Frequency Responce = $\pm 1,5$ dB Max
- Output Gain control = MGC or AGC selectable

RF MONITOR PORT (for each amplifier):

- On Front Panel -20 dB
- Connector = F or SMA
- Impedance = 75 or 50 Ω
- Flatness = ± 2 dB

LNB POWER CONTROL:

- D.C. VOLTAGE = OFF, 13V, 18V
max 500 mA for each Input
- TONE = 22 KHz ON/OFF
- LNB Protections = short circuit and current limited
- LED = green = OK, red = dc short circuit Alarm

RF POWER SENSING ALARM:

- POWER THRESHOLD = adjust from -50 to -5 dBm

POWER SUPPLY (for each amplifier):

- 12 V d.c., 250 mA per module

GENERAL SPECIFICATIONS:

- SAFETY = EN 50 083-1 and EN 60 950.
- ENVIRONMENT:
- Temperature range: -30° / $+55^{\circ}$ (max 60°)
- Umidity 95%
- EMC = EN 50 083-2

ADJUSTABLE RACK HANDLE POSITION



Handle: external to the Front Panel

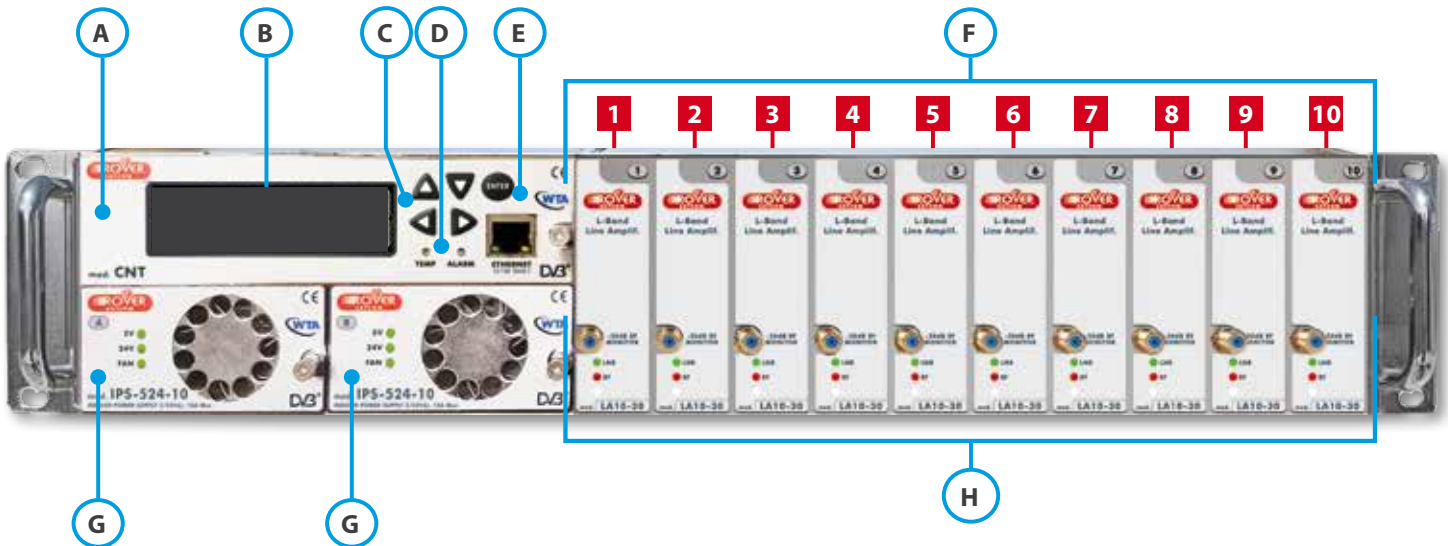


Handle: aligned to the Front Panel



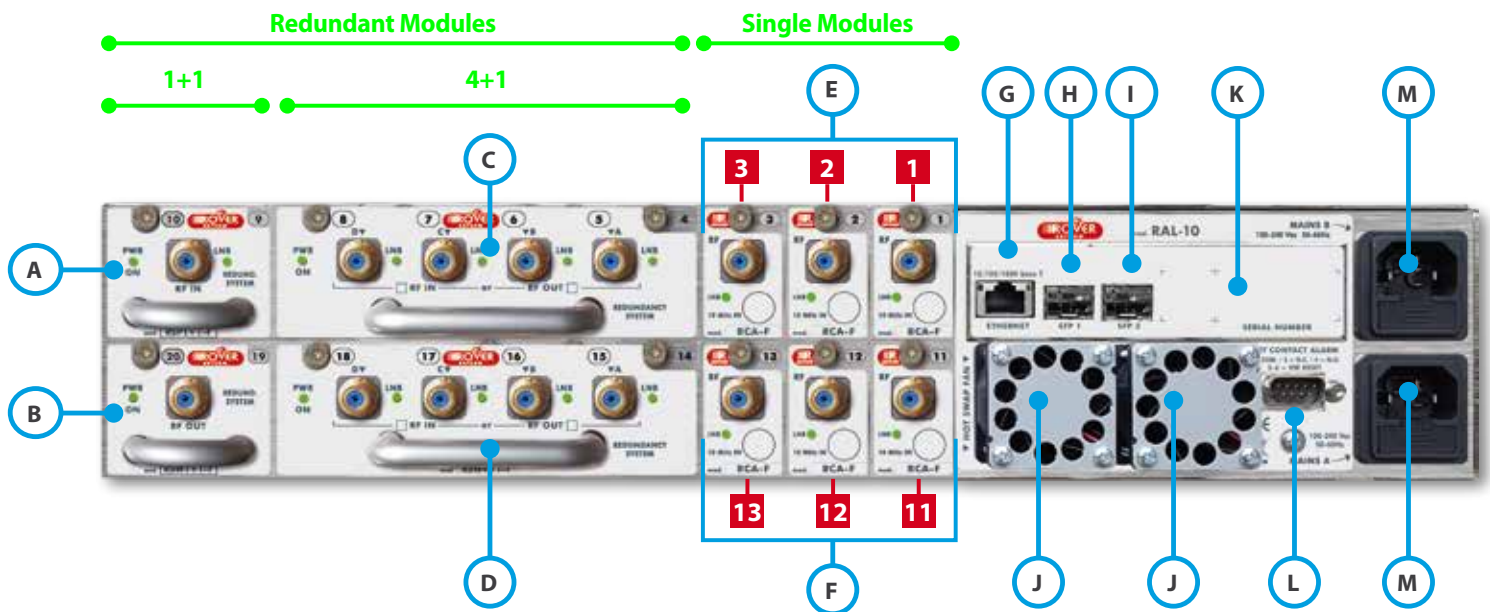
Handle: internal to the Front Panel

RAL-10 FRONT PANEL DESCRIPTIONS



- A. Hot-Plug Local Controller Module
- B. Oled Display
- C. Keypad
- D. TEMP & ALARM Leds
- E. Ethernet Connector (opt.)
- F. 10 Slot for Hot-swap L-Band line Amplifiers
- G. Hot-Swap Indoor Power Supply Module & FAN
- H. RF Monitor Port

RAL-10 REAR PANEL DESCRIPTIONS



- A. 1+1 RF Redundant Input Splitter Module (2 slots)
- B. 1+1 RF Redundant Out Switching Module (2 slots)
- C. 4+1 RF Redundant Input Switching Module (5 slots)
- D. 4+1 RF Redundant Output Switching Module (5 slots)
- E. Slot 1 to 3 RF IN Connectors adapter, 75 or 50 Ω
- F. Slot 11 to 13 RF OUT Connectors adapter, 75 or 50 Ω
- G. Copper Ethernet Connector 10/100/1000 BASE-T
- H. SFP 1 Slot for Ethernet over Fiber
- I. SFP 2 Slot for Ethernet over Fiber
- J. Swappable Chassis Fan
- K. Serial Number
- L. Sub-D Dry 9 Contact Alarm and Remote Reset
- M. Mains and Fuse Receptacle

HOW TO FIND US

Situated in one of the most beautiful tourist locations in Italy, on Lake Garda, ROVER can be easily reached from Milan, Bergamo, Verona and Venice airports.

Lake Garda is in the north of Italy, near the borders of Austria, Switzerland and Germany and is in the foothills of the Alps. Lake Garda has a micro-climate, tropical in summer and temperate in winter, and where palms, olives, lemons, oranges, bouganville and even banana trees can grow.

Exploited by the Romans as long ago as 350 a.C., it is now one of the most important lakeside, spa and tourist resorts in Europe. Please find below photographs of some of the most important tourist attractions in the area.

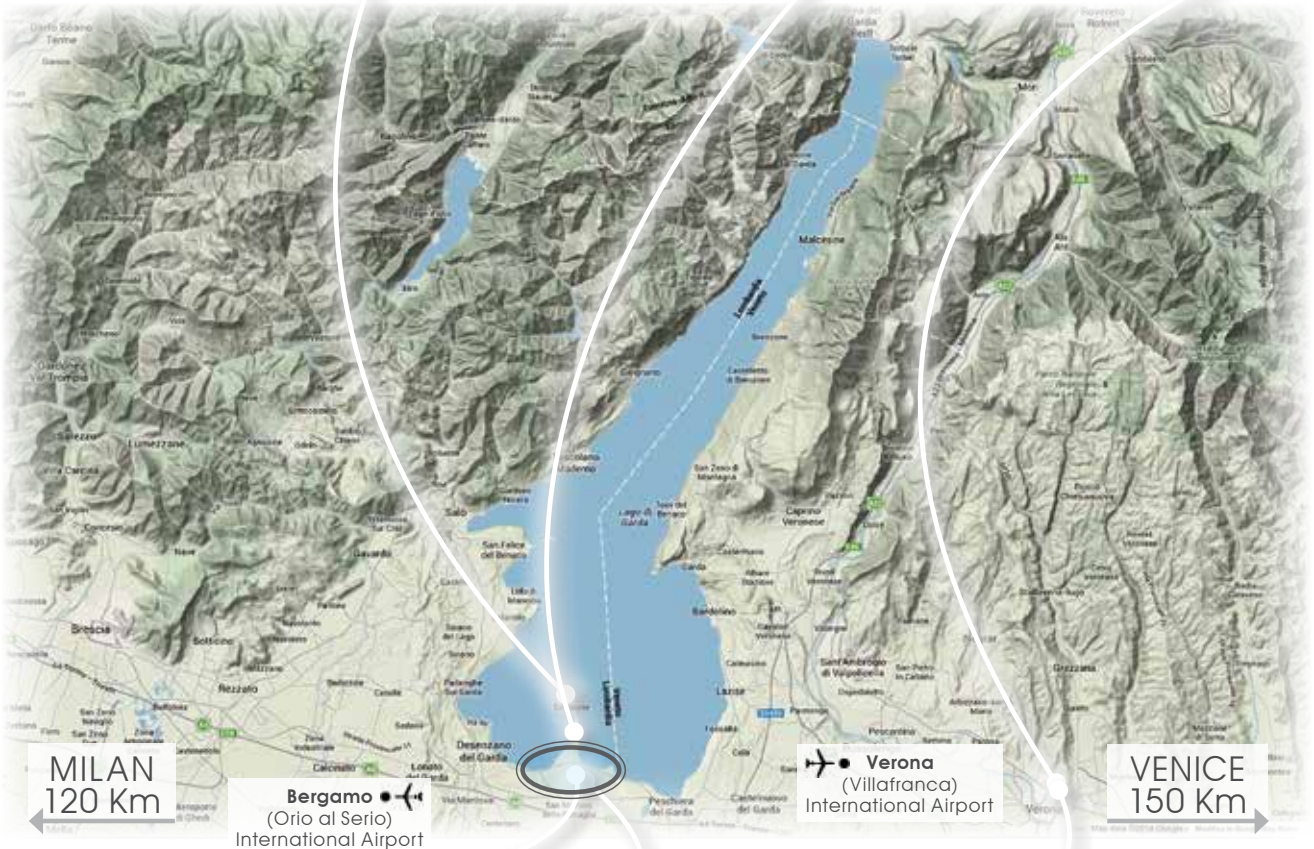
Catullus roman ruins, 350 b.C.



Sirmione Castle, 1.500 a.C.



Verona, Romeo & Juliet's balcony



GPS COORDINATES:
45° 27' 47"N, 10° 36' 24" E



ROVER Goods entrance & production



ROVER Laboratories and offices



Verona, roman Arena 120 b.C.

V3 13-7-22

CERTIFICATES N°
1263 ISO 9001
1264 ISO 14001
1265 ISO 45001



Product
made in Italy by
Rover Broadcast.com



*Specifications and features
are subject to change without notice.*

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