

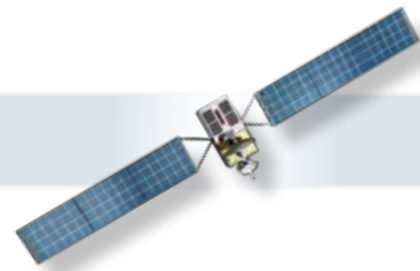


# L-BAND MULTIPLE LINE AMPLIFIER

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

RF Line Amplifier L-Band

Mod. **RAL4-30-X-X**



- SCALABLE and MODULAR
- Up to 4 Hot Swap AMPLIFIER MODULES in 1 Rack Unit CHASSIS
  - RF FREQ. 700 - 3000 MHz • RF POWER MONITORING
  - MEETS OIP-3, RL and FLATNESS STRICT SPECIFICATIONS
    - HOT SWAP REDUNDANT PSU 1:1
    - 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 RAL4 is a 19" Rack EXTENDED L-BAND LINE AMPLIFIER, it allows to have up to 4 HOT SWAP Amplifier Modules in a single chassis.

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

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 = 0 to 28 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  $\Omega$
- Flatness =  $\pm 2$  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:

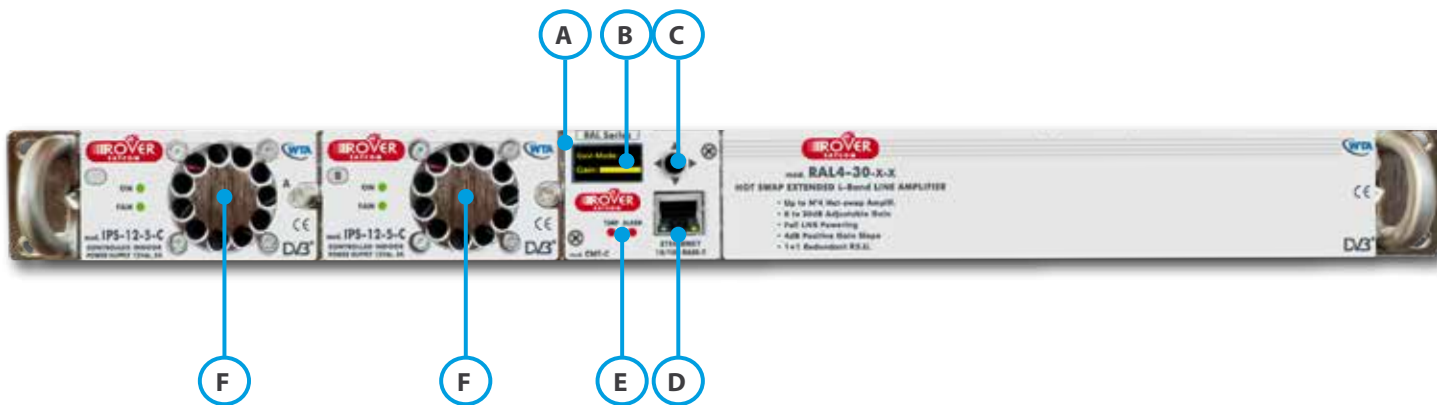
- POWER THRESHOLD = adjust from -50 to -5 dBm

#### POWER SUPPLY (for each amplifier):

- 12 V d.c., 150 mA per module

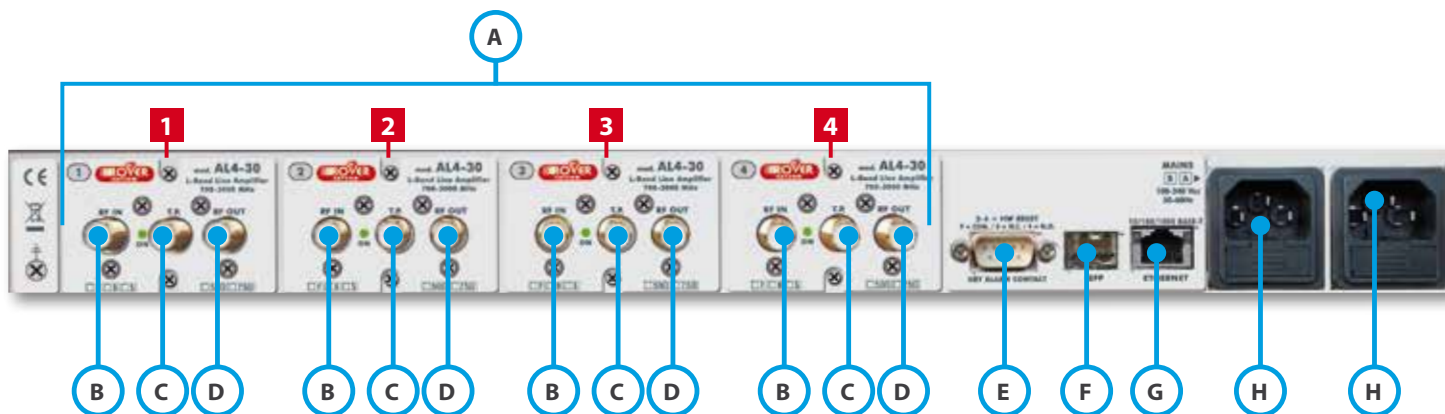
#### GENERAL SPECIFICATIONS:

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



- A. Hot-Plug Local Controller Module
- B. Oled Display
- C. Joystick
- D. Ethernet Connector (opt.)
- E. TEMP & ALARM Leds
- F. Hot-Swap Indoor Power Supply Module & FAN

# RAL4-40 REAR PANEL DESCRIPTIONS



- A. Slots for N.4 Hot - swap L-Band line Amplifiers
- B. RF Input
- C. RF monitor Port
- D. RF Output
- E. Sub-D Dry 9 Contact Alarm and Remote Reset
- F. SFP Slot for Ethernet over Fiber
- G. Copper Ethernet Connector 10/100/1000 BASE-T
- H. 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.

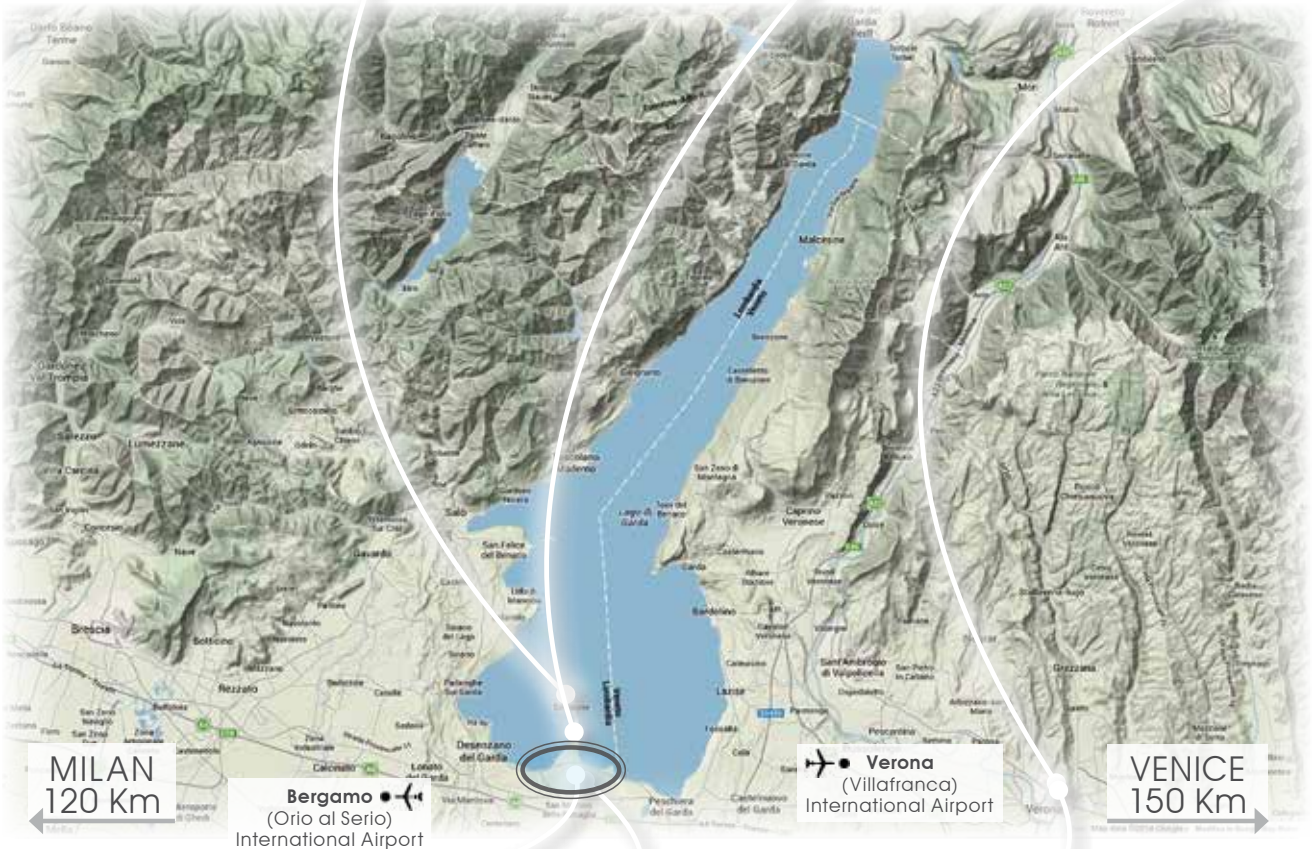
Catullus roman ruins, 350 b.C.



Sirmione Castle, 1.500 a.C.



Verona, Romeo & Juliet's balcony



ROVER Goods entrance & production



ROVER Laboratories and offices



Verona, roman Arena 120 b.C.

V2 13-7-22

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



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Rover Broadcast.com



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

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