



# FAN-OUT 8 x 8 L-BAND SAT MATRIX ROUTER

1U RACK WITH LAN CONTROL, 700 - 2450 MHz

FAN OUT MATRIX  
Mod. **FOM8x8-X-X**



- RF FREQUENCY 700-2450 MHz
  - RF POWER MONITORING
  - AGC/MGC GAIN CONTROL
- HOT SWAP REDUNDANT PSU 1:1
  - FULL LNB POWERING (opt.)
- CONFIGURABLE VIA LOCAL DISPLAY & KEYBOARD
- MONITORING & CONTROL VIA WEB GUI & SNMP

**INNOVATIVE  
PERFORMANCE**

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

CE DVB

WTA  
MEMBER

1972 > 2023 >>

51 YEARS OF TECHNOLOGY INNOVATION

The FOM 8 x 8 is a FAN OUT MATRIX for L-BAND signals. It is available in two versions, "Complete" or "Lite".

The Complete version can include the Input/Output signals control modules that allow the automatic or manual gain configuration, furthermore it has the possibility to archive the LNB Power Supply on the 8 Inputs.

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 PORT CAPACITY:

- Input Port Number: 8
- Output Port Number: 8
- Optical Input port Number: up to 8 with MINI-ORX (SC-APC, LC-APC, E2000, FC-APC opt.)

### RF SPECIFICATIONS:

- Frequency Range = 700-2450 MHz
- Connectors = F (or BNC or SMA opt.)
- Impedance = 75 Ohm (or 50 Ohm opt.)
- Max INPUT Level = 0 dBm typ. +5 max. (with 10 dB attenuator ON)
- OP1dB = +17 dBm direct (+3 dBm with 4 way splitter)
- Damage Input Level = 15 dBm
- Input R.L. = >16 dB, 14 dB min.
- Output R.L. = >16 dB, 14 dB min.
- Total Gain/Loss = 0 dB,  $\pm 1,5$  dB typ, 2 dB max
- Temperature gain variation = 1,5 dB from -30° to +60° C
- L Band Flatness =  $\pm 1$  dB, 1,5 dB max
- Full Band Flatness =  $\pm 1,5$  dB, 2 dB max
- Flatness in 36 Mhz interval =  $\pm 0,3$  dB, 0,5 dB max
- Isolation between adjacent out Port = > 24 dB, 22 min.
- IMD = > - 40 dB (2 Tones at -13 dBm)
- Noise Figure = 9 dB

### LNB POWER CONTROL :

- D.C. VOLTAGE = OFF, 13V, 18V (or 24 optional) max 600 mA for each Input
- TONE = 22 KHz ON/OFF
- LNB Protections = short circuit and current limited

### RF POWER SENSING:

- POWER THRESHOLD = - 45 dBm (RMS)

### DRY CONTACT ALARM BOARD:

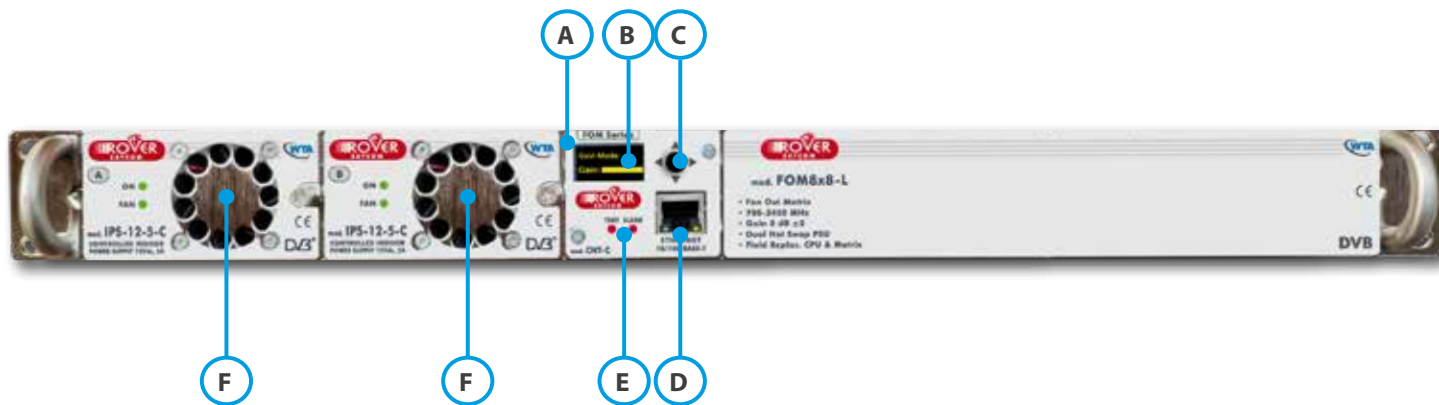
- CONNECTOR = SUB-D9 Male
- CONTACT LOAD = 65 V - 400 mA
- A & B MAINS PSU = one defective or both
- LNB = dc Short Circuit
- RF POWER SENSING = RF TOO LOW or NO RF Signal

### REDUNDANT POWER SUPPLY:

- N. 2 AC MAINS PSU = 110-240 VAC (with 2 separate receptacle for 2 separate Power LINE)
- AC POWER CONSUMPTION = < 25 VA
- N. 1 EXT DC PSU = 48 V D.C. (optional)

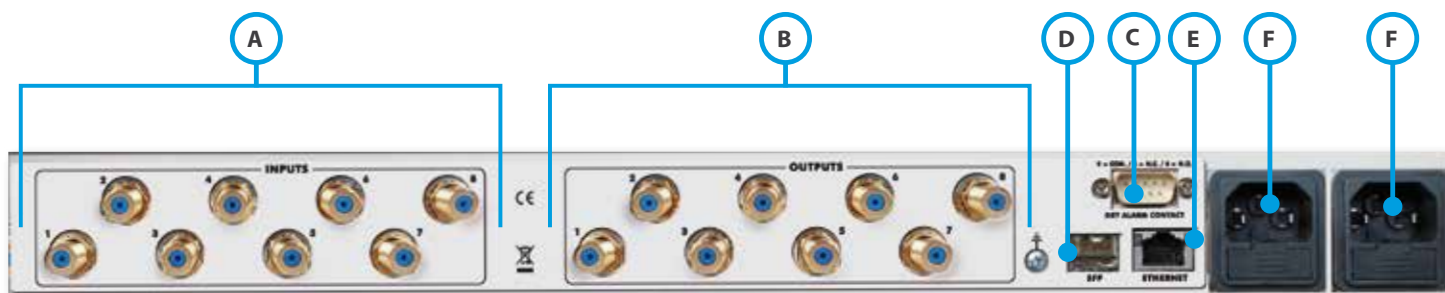
### GENERAL SPECIFICATIONS:

- SLIM CASE = 19" 1U Rack (43 cm deep)
- NET WEIGHT = from 3 to 5 Kg related to the IN/OUT modules
- SAFETY = EN 50 083-1 and EN 60 950.
- ENVIRONMENT:
  - Temperature range: -30° / + 55° (max 60°)
  - 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

# FOM 8 X 8 REAR PANEL DESCRIPTIONS



- A. RF Input
- B. RF Output
- C. Sub-D Dry 9 Contact Alarm and Remote Reset
- D. SFP Slot for Ethernet over Fiber
- E. Copper Ethernet Connector 10/100/1000 BASE-T
- F. 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.

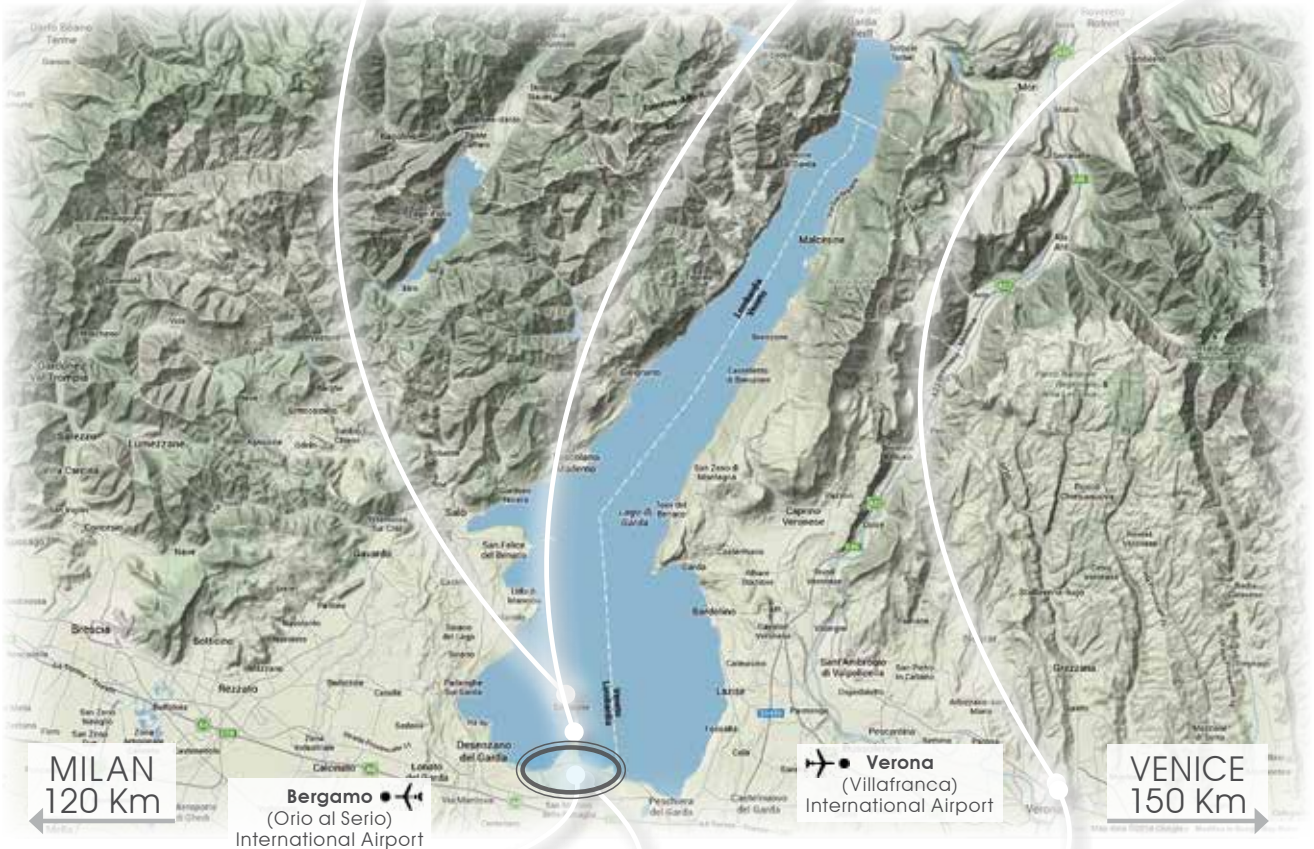
Catullus roman ruins, 350 b.C.



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.

V1 20-7-22

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.*

RO.VE.R. Laboratories S.p.A.  
Via Parini, 2 - 25019 Sirmione (BS) Italy  
info@roverinstruments.com • www.roverbroadcast.com