

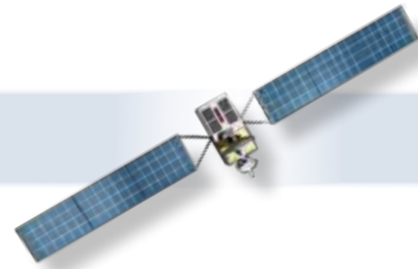


MORE THAN 50 YEARS IN TECHNOLOGY INNOVATION

Ku BAND - Rover L-Band Dual Redundancy RF Switching System

19" Rack Hot-Swap Extended L-Band amplifier and switching modules 700-3000 MHz

Mod. RFS8-X-X



- SCALABLE AND MODULAR
- UP TO N. 4 HOT SWAP QUADRUPLE AMPLIFIERS MODULES
 - UP TO N.4 HOT SWAP DUAL RF SWITCHING MODULES
 - RF FREQ. 700 -3000 MHZ
 - RF POWER MONITORING
- MEETS OIP-3, RL AND FLATNESS STRICT SPECIFICATIONS
 - HOT SWAP REDUNDAND PSU 1:1
 - FULL LNB POWERING
- CONFIGURABLE VIA LOCAL DISPLAY AND KEY BOARD
- MONITORING AND CONTROL VIA WEB GUI & SNMP

**INNOVATIVE
PERFORMANCE**

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



RFS8 is a 19" Rack EXTENDED L-BAND LINE AMPLIFIER & REDUNDANCY RF SWITCHING SYSTEM.

The RFS8 Rack interfaces up to 8 MAIN and 8 BACKUP L-BAND signals with monitoring capabilities to switch to a backup signal with a programmable RF power threshold.

This system has a Split architecture to reduce assembly and maintenance costs. Built with N.4 HOT-SWAP modules on the rear side of the chassis (**DRA4**), having n. 4 L-Band Amplifiers each and with N.4 HOT-SWAP modules on the front side of the chassis (**DRS2**), having n.2 switches to automatically provide the proper RF output for each couple of L-Band input signals.

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.

DRA4 TECHNICAL SPECIFICATIONS

RF SPECIFICATIONS:

- Freq. Range = 700-3000 MHz
- Positive Gain Slope = 4 dB
- Gain range = 15 dB
- Noise Figure = 7 dB
- Connectors = F, BNC 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

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

DRS2 TECHNICAL SPECIFICATIONS

RF SPECIFICATIONS:

- N. 2 Switching units per module with 2 WAY RF Output Switch (700-3000 MHz)
- «F» Output Connector (opt. SMA-BNC)
- Automatic and Remote Control

RF MONITOR PORT for each Switch:

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

GENERAL SPECIFICATIONS:

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

POWER SUPPLY (Redundant):

- 2 x 220 Vac with FAN ventilator

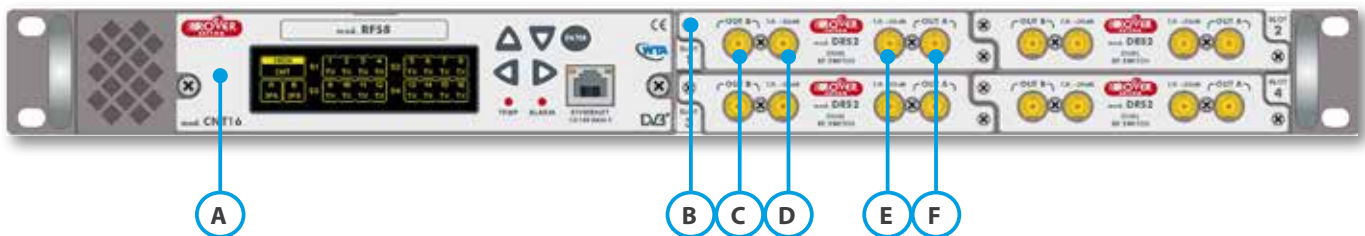
Controller unit:

- Hotswap controller with local display and keyboard

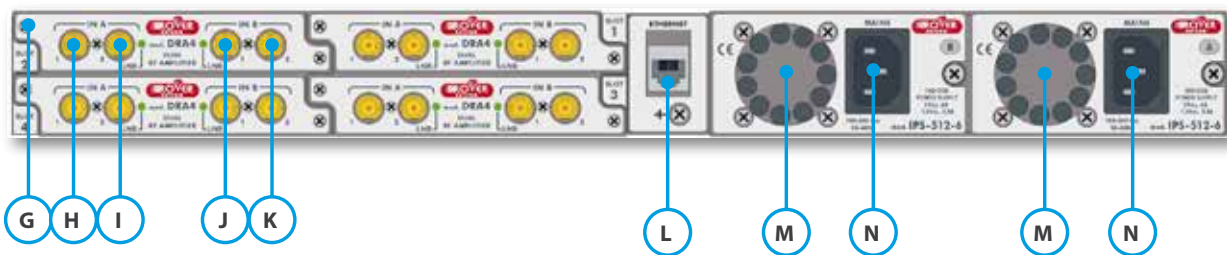
Size & Weight:

- 19" 1U Rack chassis, 2.5 Kg

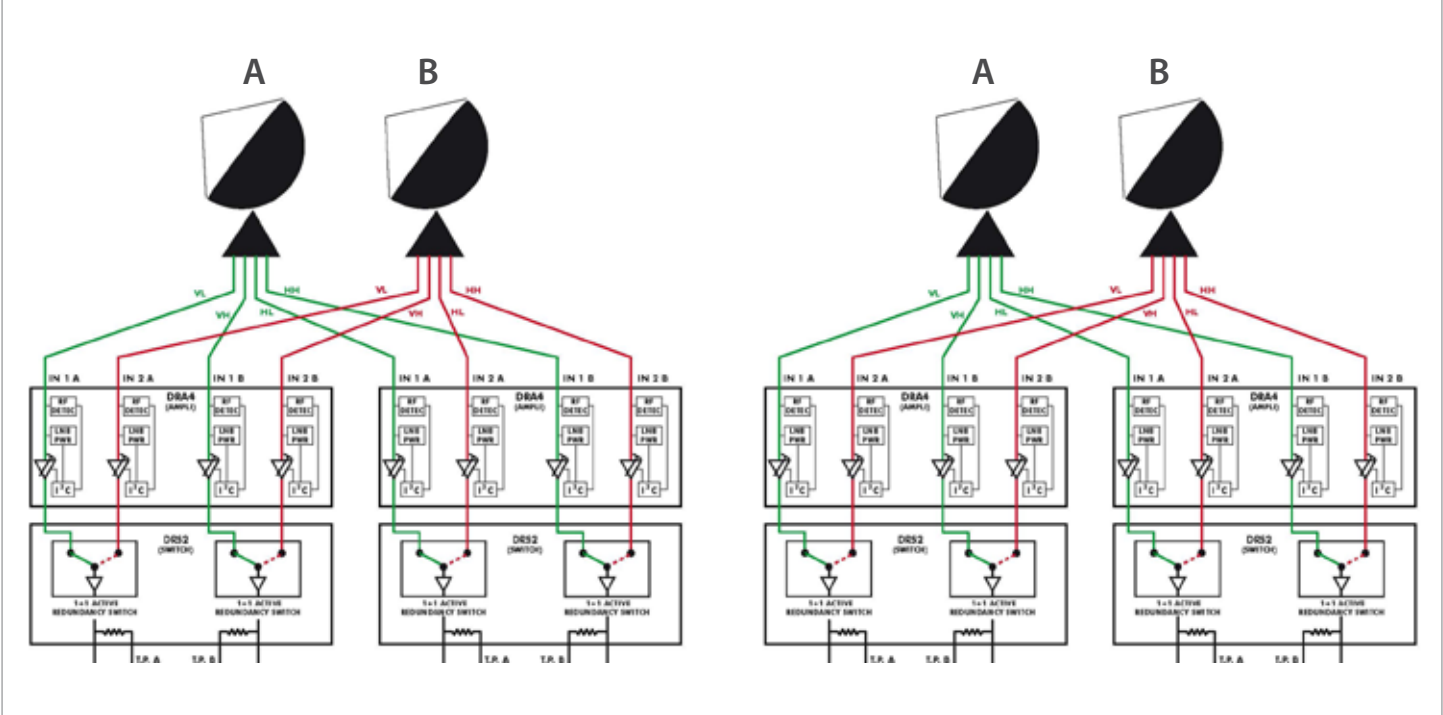
RFS8 FRONT and REAR PANEL DESCRIPTIONS



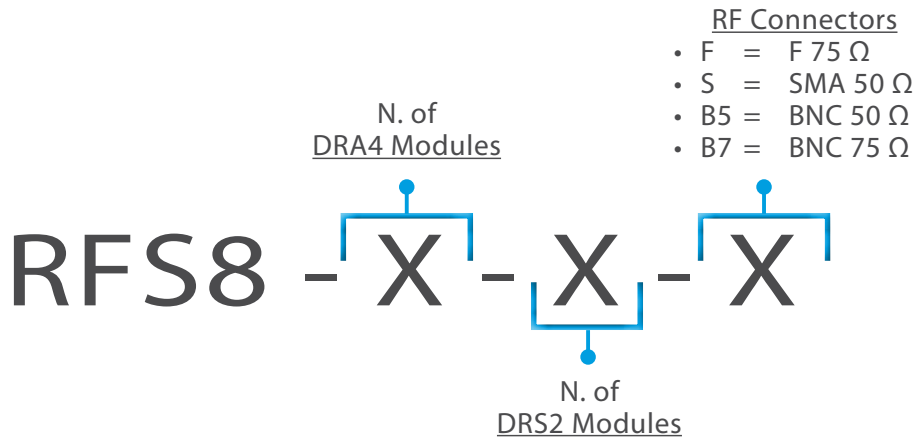
- A. Hot Swap Local controller unit
- B. DRS2 Switching Module
- C. Active L-Band B Output
- D. -20 dB B Output Test Point
- E. Active L-Band A Output
- F. -20 dB A Output Test Point



- G. DRA4 Amplifier Module
- H. LNB input A1
- I. LNB Input A2
- J. LNB input B1
- K. LNB input B2
- L. Ethernet connector (opt.)
- M. Hot Swap Indoor Power Supply Module & Fan
- N. Mains Receptacle



RFS8-X-X Ordering CODE



MODEL	DESCRIPTION
RFS8-X-X-X	Ku BAND - Rover L-Band Dual Redundancy Switching and optional Splitting System CHASSIS. Supplied with control unit, Double power supply. RF connector «F» or «BNC» 75 Ω type (optional SMA).
DRA4	2-ways Quadruple Adjustable Amplifier Module.
DRS2	2-ways Dual Active Switch Module.