

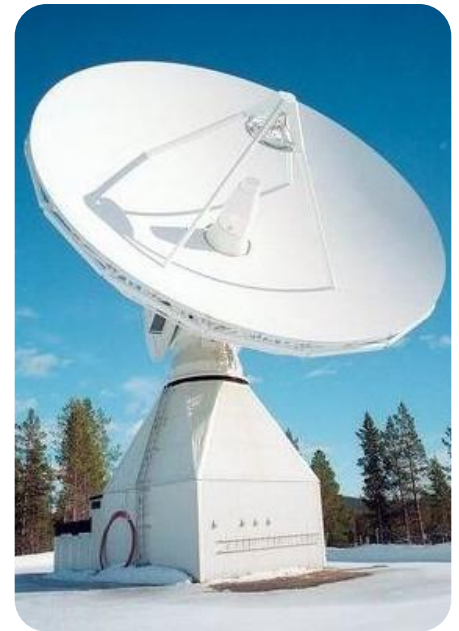
Data Sheet

LNA Redundancy System – P/N 3290

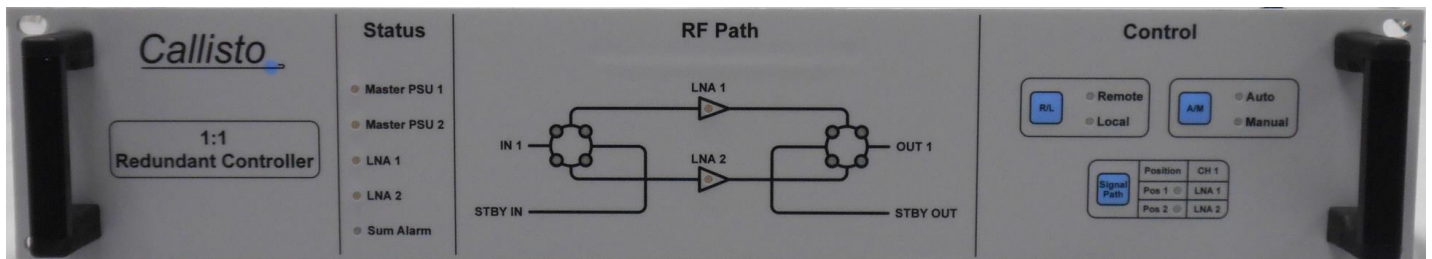
Overview

Callisto is able to offer a solution for controlling RF switching of LNAs for redundancy. The basic controller unit is a 19" rack mountable unit which contains Redundant power supplies and control circuits for 2 or 3 LNA together with the RF switches. The design is modular and can be configured for the customer's requirements. Basic features are:

- Remote and local indicators.
- Automatic or manual switchover.
- LNA power supplies can be built-in.
- LNA fault detection for built-in PSUs
- Redundant mains powered.
- 19" rack mount chassis.
- Controls RF switches for all LNA band (S, X, K, Ka).



Front and Rear Panels View



Physical Specifications

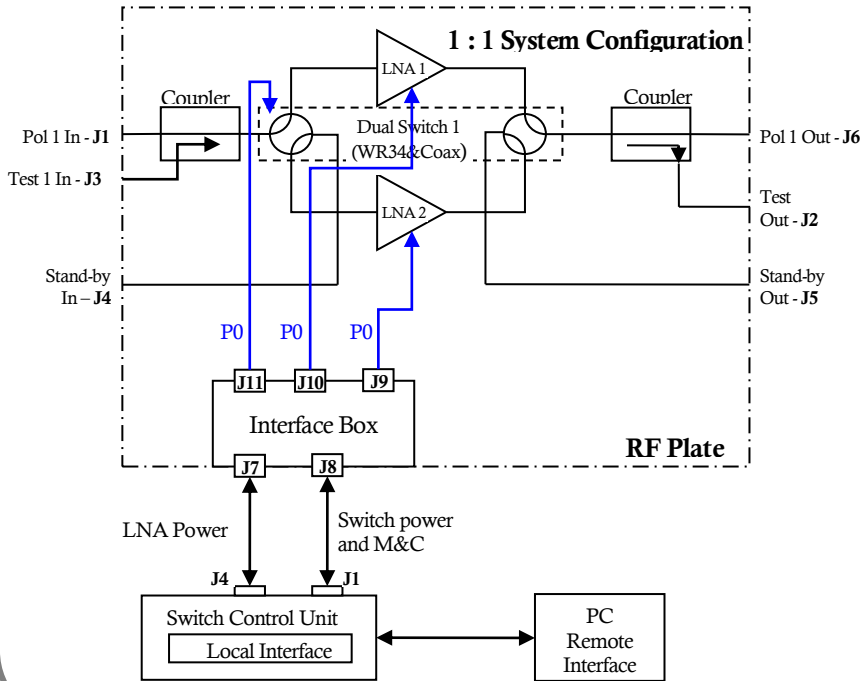
Input Power	Redundant 85-250VAC. 47-63 Hz
Dimensions	88(2U) x 483mm x 470mm
Weight	8 kg
Operating Temperature	-20°C to +40°C
Storage Temperature Range	-40°C to +60°C

Optional features

- 1:1 or 1:2 redundancy switching configurations
- TCP/IP Remote M&C port.
- Redundant LNA power supplies.

The specifications provided in this data sheet are preliminary and intended as a guide only. Callisto reserves the right to modify specifications without notice.

Typical 1:2 System Configuration



Additional Components:

- RF waveguide transfer switches for LNA inputs (S, X, K, or Ka bands)
- RF coax transfer switches for LNA outputs (S, X, K, or Ka bands)
- Input waveguide sections and output coax cables.
- Input and Output couplers
- Control cables up to 55m length

Remote Interface - Telnet

```

Telnet 192.168.16.177
TBS?
Operating Mode=Remote
Switching Mode=Auto
Signal Path=Pos1
LNA1 Alarm=False
LNA2 Alarm=False
LNA Voltage Alarm=False
Master PSU1 Alarm=False
Master PSU2 Alarm=False
Switch Alarm=False
+5V Alarm=False
+12V Alarm=False
Offline LNA=LNA2
Summary Alarm=False
Soft Version=1.0
    
```

Remote Interface - Web

LNA Redundancy Controller – Remote Interface by Callisto

Status & Alarms	Automatic/Manual Mode	Signal Path															
28V OK 5V OK	<div style="border: 1px solid black; padding: 5px; display: inline-block;">Switch to Auto</div> Actual Mode Manual	Signal Path <table border="1"> <thead> <tr> <th>Position</th> <th>CH 1</th> <th>CH 2</th> </tr> </thead> <tbody> <tr> <td>Pos 1</td> <td>LNA 1</td> <td>LNA 2</td> </tr> <tr> <td>Pos 2</td> <td>LNA 1</td> <td>LNA 2</td> </tr> <tr> <td>Pos 3</td> <td>LNA 1</td> <td>LNA 2</td> </tr> <tr> <td>Pos 4</td> <td>LNA 1</td> <td>LNA 2</td> </tr> </tbody> </table>	Position	CH 1	CH 2	Pos 1	LNA 1	LNA 2	Pos 2	LNA 1	LNA 2	Pos 3	LNA 1	LNA 2	Pos 4	LNA 1	LNA 2
Position			CH 1	CH 2													
Pos 1	LNA 1	LNA 2															
Pos 2	LNA 1	LNA 2															
Pos 3	LNA 1	LNA 2															
Pos 4	LNA 1	LNA 2															
LNA1 OK LNA2 OK LNA3 OK	Controller Mode Remote																

Remote M&C interfaces are accessible via a configurable TCP-IP address

View of the 1:1 RF Assembly (with optional couplers)

