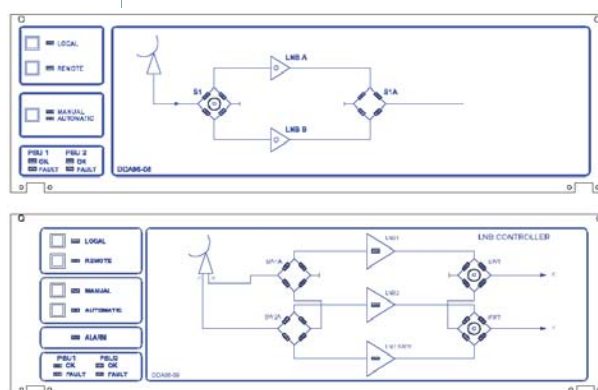


## I+1 LNA/LNB Redundancy Switch I+2 LNA/LNB Redundancy Switch

- I+1 and I+2 Redundancy Switch
- Power supply for LNA/LNB
- PSU Current monitoring
- Automatic changeover on failure
- Additional external alarms
- 3U package
- Redundant Power Feeds
- Remote Monitoring & Control Port



The DDA86-08 and DDA86-09 are versatile redundancy switches, intended for powering and protecting LNAs, LNBs and similar equipment. They have similar features, the main difference being that the DDA86-08 supports two LNA/LNBs in a 1+1 redundant configuration, while the DDA86-09 supports three LNA/LNBs in a 1+2 configuration.

The unit provides the power for the supported LNAs or LNBs, and has an adjustable output voltage. Current monitoring is employed to detect faults, with separately adjustable high and low limits. For best reliability each power supply is a separate module - thereby minimising the risk that a fault in the system can take more than one amplifier out of service.

In addition to the current detection, each path has two fault inputs for volt-free contacts which may be connected to other alarm sources.

The front panel includes a system mimic and local controls.

The remote monitoring and control port allows access to all the front panel control and monitoring facilities, using an industry-standard protocol.

Depending on the type of LNA/LNB used, power may be fed via the RF output connector, or connected directly to a dedicated power connector. In the former case an appropriate bias tee will be required.

A summary alarm output relay signals any detected fault, including incoming power supply failure, LNA/LNB current out of limits and various internal faults.

## I+1 LNA/LNB Redundancy Switch I+2 LNA/LNB Redundancy Switch (cont.)

Specification	
<b>Physical</b>	3U 19" rack, 360mm deep (excluding connectors)
<b>Power</b>	90-254V a.c., 50VA max. Redundant power feeds. (Up to 100VA peak while switching)
<b>LNB Power</b>	12-20V d.c., adjustable, 500mA maximum per amplifier Adjustable current thresholds for high and low current limit.
<b>Host Serial</b>	4-wire RS-422/RS-485, fixed 9600,7,e,1. Supports "Printable ASCII" and "STX/ETX" protocols. Command set compatible with DDA70 waveguide switch controller
<b>Alarm</b>	Relay output signals any detected fault.
<b>Connectors</b>	Mains - IEC inlet LNA/B - 9-D socket for each unit Host serial - 9-D socket Summary alarm - 9-D plug
<b>Front Panel</b>	Polycarbonate laminate with system mimic diagram Pushbuttons for switch path control Remote/Local pushbuttons and indicators Auto/Manual pushbuttons and indicators
<b>Switching</b>	In automatic mode, failed LNA/LNB is replaced with standby Symmetrical switching in 1+1 system 2 second delay before switching

Selection Guide	
<b>DDA86-08</b>	1+1 LNA/LNB controller and power supply
<b>DDA86-09</b>	1+2 LNA/LNB controller and power supply