

General Purpose I+I Switch Controller & Redundancy Controller (*cont.*)

Specification	
Physical	19" rack, 1U high, 360mm deep (excluding connectors).
Power	90-254V a.c., 48-62Hz, 150VA max. Redundant power feed (dual power supplies) via two IEC mains inlets
Switching	Support for two mechanical switches: <ul style="list-style-type: none"> • Option 1 - External coaxial or waveguide, 24V coils, common negative, including inputs for locks. • Option 2 - External coaxial switch, 24V coils, common positive. • Option 3 - Internal latching coaxial transfer switch, 50Ω, to 18GHz. • Option 5 - Internal latching coaxial transfer switch, 50Ω, to 200MHz • Option 7 - Internal latching coaxial transfer switch, 75Ω, to 200MHz or : <ul style="list-style-type: none"> • Option 8 - RS-422 changeover option (electronic switching and buffering) - max one per unit.
Chain Alarms	9-pin D-socket; two alarm signals per chain accept volt-free contact or NPN open collector. Volt-free changeover contact for muting.
Host Serial	9-pin D-socket; RS-232 and 4-wire RS-422/RS-485, fixed 9600,7,e,1. Supports "Printable ASCII" and "STX/ETX" protocols.
Summary Alarm	9-pin D-plug; volt-free relay contact signals alarm on any detected fault.

Dual LNB Power Supply & I+I Redundancy Controller

- Two regulated LNB power supplies
- Adjustable voltage for LNB supplies
- LNB current monitoring for faults
- Adjustable current limits
- Waveguide Switch interface
- Automatic redundancy mode
- Generic front panel
- Remote Monitoring & Control Port
- Compatible with other DDA219 variants
- Redundant Power Supplies
- RS-232 and RS-422/485 serial ports for RC&M
- 1U 19" rack mount
- Summary alarm output
- Buffered alarm outputs

The DDA219-X90 is a variant of the popular DDA219 general purpose controller for I+I switching systems, optimised for LNB applications. It includes two linear power supplies with adjustable voltage level and current thresholds, and overload protection. It also includes automatic redundancy facilities. Its compact size makes it ideal for mobile use, and other applications where space is at a premium.

Dual LNB Power Supply & I+I Redundancy Controller (cont.)

The unit includes dual mains inlets and supplies for redundancy, feeding an internal power bus. There is a separate output connector for each LNB supply. For LNBs powered via the coaxial cable an external bias tee (not supplied) is required.

The LNB supply voltage, current thresholds and current consumption may be monitored on a test connector at the rear of the unit, and adjustments are accessible through the rear panel.

There are buffered alarm outputs for over and under current for each LNB.

The DDA219-X90 includes a remote monitoring & control port supporting 4-wire RS-485 and RS-232, compatible with the larger DDA70 family as well as the DDA69/DDA78 I+I controllers.

The front panel provides local control and status. A number of standard front panel mimics can be supplied, with the layout shown on this page being the standard.

Specification

Physical	19" rack, 1U high, 360mm deep (excluding connectors).
Power	90-254V a.c., 48-62Hz, 150VA max. Redundant power feed (dual power supplies) via two IEC mains inlets
LNB Power	9-pin D-socket (2 off) - voltage adjustable 12-20V d.c. @ 500mA max. Separately adjustable high and low current thresholds for each LNB.
Switching	Interface for a single waveguide switch, 24V coils, common negative, including inputs for locks.
LNB Alarms	15-pin D-socket; has buffered alarm outputs for each LNB - overcurrent and undercurrent.
Mute Outputs	9-pin D-socket per LNB with volt-free changeover contact for muting — active during switching
Host Serial	9-pin D-socket; RS-232 and 4-wire RS-422/RS-485, fixed 9600,7,e,1. Supports "Printable ASCII" and "STX/ETX" protocols.
Summary Alarm	9-pin D-plug; volt-free relay contact signals alarm on any detected fault.

Selection Guide

DDA219-M90	Dual LNB Power Supply/1+1 Redundancy Controller.
In the above part number, substitute as follows:	
M	Mimic type: 0 - Standard generic mimic (as previous page) 9 - Remote control unit – PSU indications only
Example	DDA219-090 is a dual LNB power supply with generic mimic.