* Up to two coaxial or waveguide switches
* LNB Power supply option
* 1U 19" rack mount

* 10/100BaseT Network port for RC\&M, configuration
* Automatic redundancy mode protects two equipments
* Muting control when used with HPAs
* Redundant Power Supplies
* RS-232 and RS-422/485 serial ports for RC\&M
* TCP/IP Sockets RC\&M interface, SNMP
* Summary alarm output


The DDA219 is a general purpose controller for $1+1$ switching systems using coaxial or waveguide switches, and includes automatic redundancy facilities. Its compact size makes it ideal for mobile use, and other applications where space is at a premium.

A wide range of switch types are supported, including IF coaxial ( $50 \Omega$ or $75 \Omega$ ), SHF coaxial and waveguide. Input and output switches may be different types, giving support for a wide range of equipment including HPAs, up and down converters, LNAs, LNBs and modems.

Alternative switching interfaces provides electronic buffering and switching of RS-422 signals, including two separately buffered outputs, or analog signal selection.

There is a separate connector for alarms from each protected equipment chain; there is support for two fault signals from each chain (typically alarm and fault) and there is a volt-free contact for HPA muting during switching.

HPA muting is generated within the controller; the HPAs are muted during switching, and if a switch is moved manually or becomes disconnected.

The DDA219 includes a 10/100BaseT network port which supports a TCP/IP 'sockets' interface for remote monitoring and control, as well as being used for configuration. A serial port supporting 4-wire RS-485 and RS-232 also provides RC\&M facilities. The control protocol is compatible with the larger DDA286/DDA267 family as well as most of our other controllers.

The front panel provides local control and status. A number of standard front panel mimics can be supplied, including a generic layout and some showing typical redundancy configurations.

## SPECIFICATION

| Physical: | 50 mm deep (excluding connectors). |
| :---: | :---: |
| Power: | $90-254 \mathrm{~V}$ a.c., $48-62 \mathrm{~Hz}, 150 \mathrm{VA}$ max. Redundant power feed (dual power supplies) via two IEC mains inlets |
| Switching: | Support for up to 4 mechanical switches: <br> Option 1 - External latching coaxial or waveguide, 24 V coils, common negative, including inputs for locks. <br> Option 2 - External latching coaxial switch, 24V coils, common positive. <br> Option 3 - Internal latching coaxial transfer switch, $50 \Omega$, to 18 GHz . <br> Option 5 - Internal latching coaxial transfer switch, $50 \Omega$, to 300 MHz <br> Option 7 - Internal latching coaxial transfer switch, $75 \Omega$, to 300MHz <br> Option 8 -RS-422 changeover option (electronic switching and buffering) - max one per unit. <br> Option 9 - dual monitored LNB power supplies. See separate data sheet. <br> Option A - External latching coaxial or waveguide, 24 V coils, common positive, including inputs for locks. <br> Option B - Internal latching coaxial transfer switch, 50 , to 40 GHz . <br> Option C - Internal latching analog 1 of 2 selector (mostly for beacon receivers) $\pm 10 \mathrm{~V}$ range, unity gain |
| Chain Alarms: | 9-pin D-socket; two alarm signals per chain accept volt-free contact or NPN open collector. <br> 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; DPDT volt-free relay contact. |
| Network: | 10/100BaseT network port - TCP/IP sockets, SNMP, web browser |

## Ordering Information

DDA219-mioE
1+1 Redundancy and Switching Controller.
In the above part number, substitute as follows:
m
Mimic type:
0 - Standard generic mimic (upper drawing on previous page)
9 - Remote control unit - PSU indications only (Other standard options available; bespoke mimic for one-off cost)
i, o Input and output switch types - option number as per the 'Switches' section of the specification.

Example: DDA219-051E has a generic mimic, $50 \Omega$ IF input switch and output to drive an external coaxial or waveguide switch.

