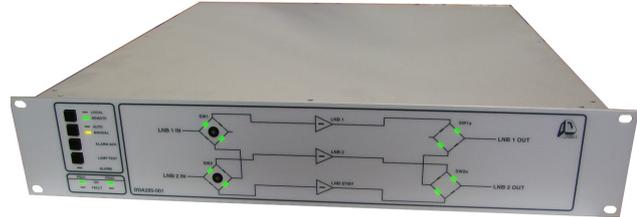# DOUBLE D ELECTRONICS LTD

DDA282-XXX General Purpose 1+2 Switch Controller & Redundancy Controller

* Up to four coaxial or waveguide switches
* Automatic redundancy mode
* 10/100BaseT network port
* SNMP V1 and V2c
* TCP/IP 'Sockets' communication
* Web browser configuration and status
* RS-232/422/485 serial RC&M port
* Muting control when used with HPAs
* Redundant Power Supplies
* Optional LNB power supplies
* 2U 19" rack mount
* Optional internal RF functionality
* Summary alarm output

The DDA282 is a general purpose controller primarily for 1+2 switching systems using coaxial or waveguide switches, and includes automatic redundancy facilities.

The unit includes four switch interfaces which can support waveguide switches, coaxial switches and other options.

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. Buffered alarm outputs are an option in some configurations.

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

The unit includes a 10/100BaseT network port which supports multiple simultaneous connections.
The web browser interface is used for a variety of purposes, including unit configuration and system log display, as well as displaying some key system status.
The TCP/IP 'sockets' interface supports multiple simultaneous connections, and provides a very fast alternative to a serial connection for RC&M.
The unit also supports SNMP V1 and V2c for RC&M.

The DDA282 includes a remote monitoring & control port supporting 4-wire RS-485 and RS-232, generally consistent with the larger DDA286/DDA86/DDA70 family as well as the DDA69/DDA78 1+1 controllers.

SPECIFICATION

Physical: 19" rack, 2U high, 450mm 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 up to four switches, assigned in pairs:
                     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
                     300MHz
                     Option 7 - Internal latching coaxial transfer switch, 75Ω, to
                     300MHz
                     Option 9 – variants involving three monitored LNB power
                     supplies.

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.

Network port: 10/100BaseT supports web browser, SNMP, TCP/IP 'Sockets'

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.

Ordering Information
DDA282-MIO   1+2 Redundancy and Switching Controller.

In the above part number, substitute as follows:

M   Mimic type:
                     0 - Standard generic mimic (as photo on previous page)

I, O   Input and output switch types - option number as per the 'Switches'
                     section of the specification (zero if not required)

Example: DDA282-051 has a generic mimic, 50Ω IF input switches and outputs
                     to drive two external coaxial or waveguide switches.