



# DOUBLE D ELECTRONICS LTD

## DDA249-XXX Networked Switch Controller

- \* Network Interface - 10/100BaseT
- \* Up to four coaxial switches
- \* Other external interface options
- \* Web Browser Interface
- \* Telnet Interface
- \* Modular Configuration
- \* Option for Redundant Power Supplies
- \* Optional RS-232 and RS-422/485 serial ports for RC&M
- \* 1U 19" rack mount (2U for some requirements)
- \* Optional summary alarm output
- \* Optional front panel



The DDA249 is a general purpose controller for coaxial and similar switching systems. Its primary comms interface is an industry standard 10/100BaseT network port, allowing it to be integrated within other corporate infrastructure. The standard unit includes control and configuration via web browser and Telnet; control and monitoring is also available via Modbus TCP/IP, and other protocols can be provided if required.

The DDA249 is a general-purpose networked I/O platform, and as such can be tailored to suit many applications. It includes alarm inputs which can be used to trigger switching, or whose status can be made available over the network interface. There are also a number of control outputs within the unit.

A popular application is to control switching. A wide range of switch types are supported, including IF coaxial (50Ω or 75Ω) and SHF coaxial, with the option of both transfer and multi-way switching. The switch types may be mixed within the unit, subject to available panel space. Typically a 1U high unit can accommodate two IF switches, or four SHF switches.

The simplest DDA249 has no front panel display, making the unit ideal for remote control, switching and data gathering applications. A display can be provided where required.

The DDA249 can optionally be provided with a standard serial port, which supports RS-232, RS-422 and RS-485 applications. Typically the serial protocol will be compatible with other devices, such as the DDA70 waveguide switch controller or the DDA75 I/O unit.

## SPECIFICATION

- Physical: 19" rack, 1U high, 260mm deep (excluding connectors).
- Power: 90-254V a.c., 48-62Hz, 100-120VA max, dependent on configuration and application. Options for single and redundant power feed (dual power supplies) via IEC mains inlets.
- Switching: Support for between 1 and 4 mechanical switches:  
**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
- Other Interfaces: The DDA249 has a number of internal expansion ports which can be used to provide various digital and analog interfaces.
- Chain Alarms: Two 9-pin D-socket; three alarm inputs per chain accept volt-free contact or NPN open collector. Function dependent on software.
- Host Serial: (Optional) 9-pin D-socket; RS-232 and 4-wire RS-422/RS-485, selected by DIP switch. Supports "Printable ASCII" and "STX/ETX" protocols.
- Summary Alarm: (Optional) 9-pin D-plug; volt-free relay contact signals alarm on any detected fault.
- Configuration: Via Web browser or Telnet
- Control: General purpose interface using Web Browser or Telnet  
I/O monitoring and control via Modbus/TCP

### Ordering Information

The DDA249 configuration is defined by means of a configuration sheet which specifies all the options required. Please request a copy from the factory.