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 coms 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 an 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.

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Networked Switch Controller *(cont.)*

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

Single Remote Waveguide Switch Controller

- Remotely control a single Waveguide Switch
- DIN-Rail mount
- 24-28V d.c. Power Supply
- RS-422/485 or RS-232 Serial Port
- Optional Summary alarm output

The DDA235/DDA251 may be used to remotely control waveguide switches over a serial link, eliminating the problems of voltage drop associated with long cable runs. The unit is in a DIN-Rail mount format, reflecting the need for such units to be mounted in equipment cabinets adjacent to the waveguide network rather than being rack mounted.

The DDA235/DDA251 is powered from 24-28V d.c. to give maximum flexibility.
On the DDA235, a summary alarm output reports both power supply and waveguide switch faults.

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