



DOUBLE D ELECTRONICS LTD

DDA267 Networkable Switching Controller for independent mounting

- * For 'non-rack' mounting applications
- * Modular Construction
- * Waveguide & Coaxial Switch Control
- * LNA/LNB Power Supplies
- * 10/100BaseT Network port
- * SNMP V1 and V2c
- * TCP/IP 'Sockets' communication
- * Web browser configuration and status
- * Wide range of interfaces
- * Automatic Changeover logic
- * Remote monitoring & Control
- * Remote front panel option



The DDA267 is intended for applications where rack mounting is inappropriate, and can be provided in a variety of configurations. Fully compatible with our DDA286 controller family, a modular construction allows support for virtually any configuration, and non-standard features can be incorporated on request.

The main features are as follows:

Construction

Various configurations based on modules being mounted on a flat chassis. The unit can be supplied in many configurations, ranging from individual modules through to IP-rated outdoor boxes pre-wired to terminal block I/O. . All units are plug-in, allowing simple field maintenance. The overall size of the package is governed by the capabilities required. Units can also be supplied with RF components such as LNA/LNB, waveguide and coaxial switching and similar, and this also affects the size.



Power Supplies

Universal input 90-240V a.c. 50-60Hz. Options for single and redundant power feeds.

Coaxial Switch Control

Most standard coaxial switches can be accommodated. IF transfer switches (d.c. to 200MHz) are available in 50Ω and 75Ω versions. Coaxial transfer and multi-way switches operating at up to 18GHz (or 26GHz) are also available.

Waveguide Switch Control

Control of industry standard 24-28V waveguide switches (48V as an option), using the same interface as the DDA70 family of controllers.

HPA Interface

DDA70 compatible connections support three HPAs per module, each with three fault inputs and a mute output. Buffered alarm outputs can be provided.

LNA/LNB Power

A variety of options to power LNAs and LNBs. For simple systems a fixed 24V d.c. output is often adequate. Options provide for variable output voltage. Switched voltage units are available for dual band systems. For units with dual mains feed and other than 24V output, the local power generation circuitry may also be made redundant.

Up to six outputs can be provided; each from a separate circuit for best reliability. Each is on a separate rear panel connector, with its own self-resetting fuse. Where LNB power has to be fed via its coaxial output connector, a range of bias tees can be provided.

Each LNB power supply is individually monitored, and an alarm generated if the current drain goes outside preset limits.

Input/Output

Further modules provide various input and output options to suit the application.

Control Facilities

Most control facilities can be implemented in software, typically including redundancy controllers, switching logic and general I/O interface.

The unit includes up to four serial ports, which may be used for various purposes. All ports support RS-232, RS-422 and 4-wire RS-485 at a variety of baud rates. The industry standard 'Printable ASCII' and 'STX/ETX' protocols are supported. On the RC&M side, commands vary according to the facilities required, and are generally based on the DDA70 Waveguide Switch Controller command set.

Power Levelling

The controller can be configured to support power levelling, where the standby is updated with the settings of the main path equipment it is replacing during a switching sequence. Values may be updated by configurable amounts prior to update.

Local Control

The DDA267 itself does not have a front panel. Local control is possible via the serial or network ports. A remote front panel can be provided, communicating via a serial or network link, which simplifies cross-site cabling.

Ordering Information

A unique reference is allocated to each unit after determining the precise specification in discussion with our Technical Sales.