



# DOUBLE D ELECTRONICS LTD

## DDA293 Headless/Outdoor Switching Controller

- \* For 'non-rack' mounting applications
- \* Outdoor enclosure
- \* Waveguide & Coaxial Switch Control
- \* HPA interfaces
- \* Serial interfaces
- \* Terminal block connections
- \* LNA/LNB Power Supplies
- \* Option for 10/100BaseT Network port
- \* Wide range of optional interfaces
- \* Automatic Changeover logic (1+1, 1+2)
- \* Remote monitoring & Control
- \* Remote front panel option
- \* Battery Backed Power option

The DDA293 is intended for the smaller waveguide switch control applications where rack mounting (and a local display) is inappropriate, and can be provided in a variety of configurations.

The most common uses are:

- a) As a 'headless' controller, where no front panel is required.
- b) As a peripheral controller where the distance from the main controller to the waveguide switches is too great for direct cable connection (or there is inadequate duct space)

The main features are as follows:

### Construction

The unit is usually supplied in an IP-rated outdoor enclosure with removable gland plate and a single mains power supply; typical size 450 x 350 x 200mm. All external connections are via pluggable screw terminal blocks. Dual supplies can be supported, as can battery backup.

The module set can also be supplied for mounting into an existing enclosure, and is intended for mounting on a flat chassis.

### Base Configuration

The base configuration has the following interfaces:

- RS-232/422/485 serial interface for RC&M
- 2 off waveguide/coaxial switch interface industry standard 24V common -ve.
- 3 off HPA interface – 2 x alarm input, mute relay output
- 1 off OWB interface for temperature monitoring

### Expansion Interfaces

The following expansion modules are available, generally being mounted on top of the main circuit board:

- 2 x waveguide/coaxial switch (up to 3 supported)

Serial interface for extra RC&M port or HPA comms  
10/100BaseT network port for RC&M  
Additional OWB interface  
General purpose I/O (various options)  
LNA/LNB power supplies (various options)

#### Power Supply

Single feed, universal input 90-240V a.c. 50-60Hz. Typically less than 30VA quiescent, up to 150VA switching.

#### Remote Control Panel

Typically this is another controller in our range, such as the DDA219, the DDA290 or the DDA286. These controllers can be configured to have local switches, as well as the remote ones of the DDA293.

#### Other options

The following list is not exhaustive; please consult the factory for other requirements:

- Alternative enclosures
- Pre-drilled gland plate
- External connectors with wiring looms
- Dual mains supplies
- Battery backup

#### **Ordering Information**

Please consult factory