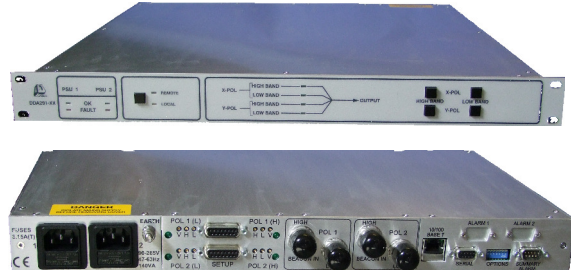




DOUBLE D ELECTRONICS LTD

DDA291-XX Beacon Receiver with quad LNB Power Supply & input switching

- * Integral Novella beacon receiver
- * Four regulated LNB power supplies
- * Four LNB inputs, switch selectable
- * Adjustable voltage for LNB supplies
- * LNB current monitoring for faults
- * Adjustable current limits
- * Remote Monitoring & Control Port
- * Redundant Power Supplies
- * 10/100BaseT Network port
- * RS-232 and RS-422/485 serial ports for RC&M
- * 1U 19" rack mount
- * Summary alarm output



The DDA291 is intended for beacon monitoring applications. It is a fully integrated unit, incorporating the beacon receiver, mains supplies, LNB power supplies and input switching in one compact 1U high rack mount unit.

A Novella compact beacon receiver is mounted internally; this includes fast lock, anti-sideband circuitry, two demodulation modes and good sensitivity. The receiver has four switch-selectable inputs, typically used for high and low band LNB outputs on two polarisations. Each input has its own independent LNB power supply, having adjustable voltage level and current thresholds, current monitoring and overload protection.

The unit includes dual mains inlets and supplies for redundancy, feeding an internal power bus.

Input selection uses latching mechanical switches, giving good RF performance and retention of switch position through a power down.

The LNB supply voltage, current thresholds and current consumption may be monitored on a test connector at the rear of the unit, and adjustments are accessible through the rear panel. Information is also displayed on a web page, and is available via RC&M.

A 10/100BaseT gives access to a number of features, including web pages showing status and facilitating configuration. There is also a 'TCP/IP Sockets' RC&M mode, which supports RC&M facilities in a manner similar to a conventional serial port. In addition, a standard serial port is available, supporting 4-wire RS-485 and RS-232. The RC&M protocol is broadly compatible with the DDA219 and other of our controllers.

The front panel provides local status, and manual input selection.

SPECIFICATION

- Physical: 19" rack, 1U high, 360mm deep (excluding connectors).
- Power: 90-254V a.c., 48-62Hz, 150VA max. Redundant power feed (dual power supplies) via two IEC mains inlets
- RF Inputs: (4 off) L-Band intended for LNB outputs.
Power added via bias tees
- LNB Power: (4 off) - voltage adjustable 12-20V d.c. @ 500mA max.
Separately adjustable high and low current thresholds for each LNB.
- Switching: Internal latching switches for input selection
- LNB Alarms: Overcurrent and undercurrent.
- 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.
- Network Port: 10/100Base T for configuration, RC&M
Web browser interface for status and configuration
TCP/IP Sockets interface for RC&M
SNMP
- Summary Alarm: 9-pin D-plug; volt-free relay contact signals alarm on any detected fault.
- Beacon Receiver: Novella B30; direct input via bias tee and switching
- Front Panel: PSU and alarm status, switch positions, switch controls

Ordering Information

DDA291-01 Standard 4-input beacon receiver