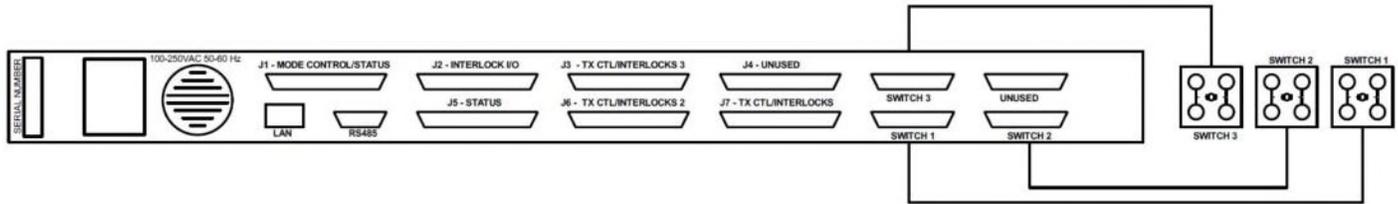


PDC-300 Three RF Switch Controller

SNMP Motorized RF Switch Controller for Master Antennas



PDC-300 RF Switch Controller, front panel



PDC-300 RF Switch Controller, rear panel

Features

- A modern approach to RF switch control in a compact 1 RU chassis form factor
- Management/Control/Status of up to three (3) - RF switches with interlock control
- Compatible with all major manufacturers' RF transfer switches
- Optional factory-fabricated RF Switch Control Cables available for most manufacturers' RF switches
- Built-in LAN Port Provides Remote Control Via Supplied BDI Windows GUI Software, and as an SNMPv2 Agent
- Local Control/Status Connectors Provided for Interface to Legacy Remote Controls or Local Control/Status Panel
- Inputs available for "RF Safe" Switch Operations- Protects Against Switch Damage
- Full/Half Power control output available via GPIO, with status available via SNMP
- Front Panel Control/Status of Switch Positions for Each Mode: Main, Upper, Lower, Test
- Dual power supplies with separate power cords are optionally available.

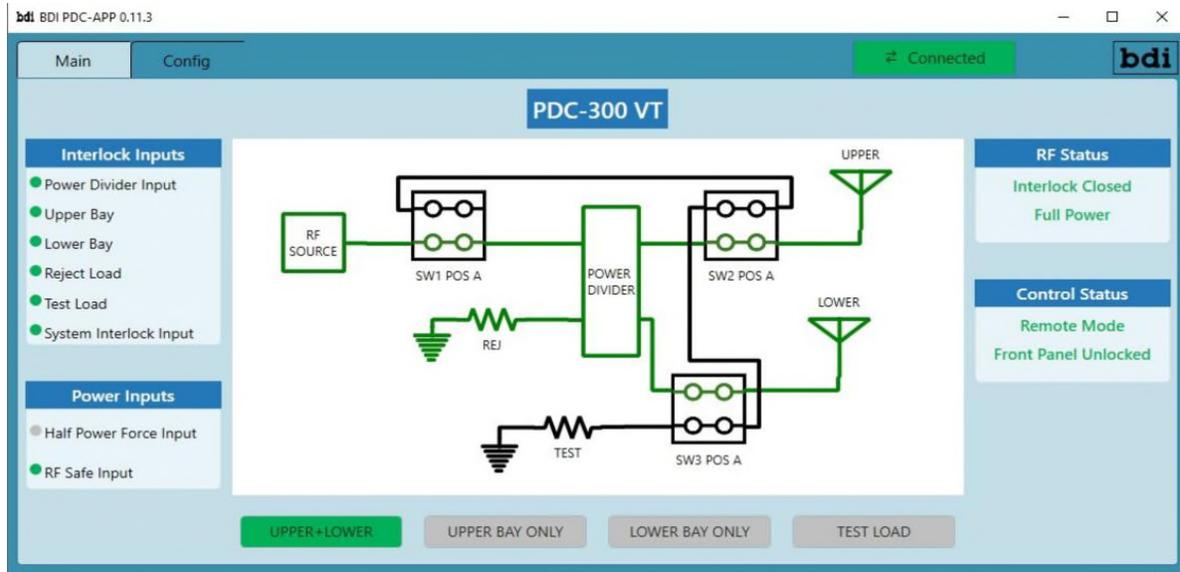
Product Description

The PDC-300 controller is designed for master antenna power dividers, where multiple modes of operation are desired for dual-feed or single-feed antenna systems. With dual-layer antennas, it is often necessary to operate from either the upper or lower antenna, bypassing the system power divider. The PDC-300 was designed specifically for this application. The units support four (4) modes:

1. Upper + Lower: Feeding both the Upper and Lower halves of the array through the power divider.
2. Upper Only: Feeding the Upper half of the array, bypassing the power divider, the PDC-300 can also automatically signal transmitter power reduction if required.
3. Lower Only: Feeding the Lower half of the array, bypassing the power divider, the PDC-300 can also automatically signal transmitter power reduction if required.
4. Test Mode: Combiner output to test load.

The PDC-300 provides connections for up to three (3) motorized RF switches. All interlocks are managed by the controller to interface with any interlock system desired. The PDC-300 includes web access and SNMP v2 support. SNMPv2 support is provided via an MIB for use with remote control systems and third-party software. Broadcast Devices also provides Microsoft Windows Application software to provide remote control and aid in system setup. The free software and the SNMP MIB file are available for download from the PDC-300 product page on our website. Of course, the PDC-300 has local GPIO control/status connections as well for local control/ status panels or a legacy remote-control interface.

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PDC-300 Windows App Graphical User Interface for all Switch Operations and System Status

Technical Specifications	PDC-300
Switch Control Voltage:	12 or 24 VDC-Selectable for Each Switch
Number of Switches Supported:	Three (3)
Switch Manufacturers supported, but not limited to:	Delta, Delta Meccanica, Dielectric 50/60K, DowKey, ERI, Kintronics, Mega/MCI, Myat, Spinner
Transmitter and Interlock Control:	Each Switch movement supports Interlock Open/Closure for safe switch operations with 12 available relays plus 12 relays for Full/Half Power command.
Transmitter Interface:	Form C dry contact relays
GPIO Remote Control interface:	Main Upper + Lower, Upper, Lower, Test command/status, Full/Half Power Status
Connector Style:	DSUB25 Female for control/interlocks, DSUB15 Female for switch interface
Communications Interface:	Ethernet TCP/IP, SNMPv2 Agent (MIB supplied), and supplied BDI Windows Graphical User Interface
Switch Interface Connectors:	DSUB15F
RS232 Serial Connector:	DSUB25F
RS485 Serial Connector:	DSUB9F
Ethernet LAN Connector:	RJ45
Power Requirements:	100 to 240 VAC, 50/60 Hz, 0.5 amps
Operating Ambient Temperature:	32 to 122 degrees, F (0 to 50 degrees, C)
Humidity:	95%, Non-condensing
Mechanical Dimensions:	19 in W x 10 in D x 1.75 in H (483 mm W x 254 mm D x 44 mm H) Standard One EIA Rack Unit Enclosure
Shipping Dimensions:	22 in W x 14 in D x 7 in H (559 mm W x 356 mm D x 178 mm H)
Shipping Weight:	15 lbs. (7 kg)

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