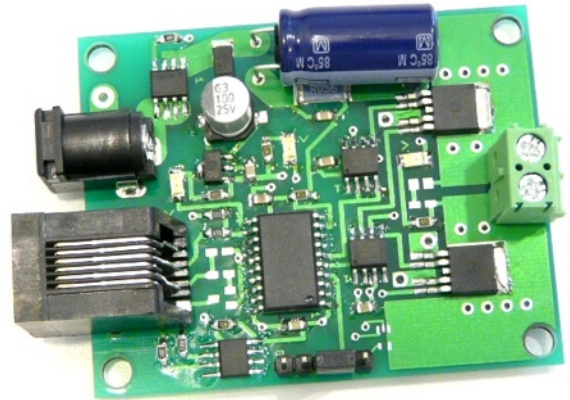




DCCBoost DCC Accessory Booster

- > DCC booster
- > Keeps accessories powered during system faults
- > Command station for CSC/SHD2
- > Short and over current protection
- > 4 amp continuous operation
- > Small size - 2.25" x 1.62"



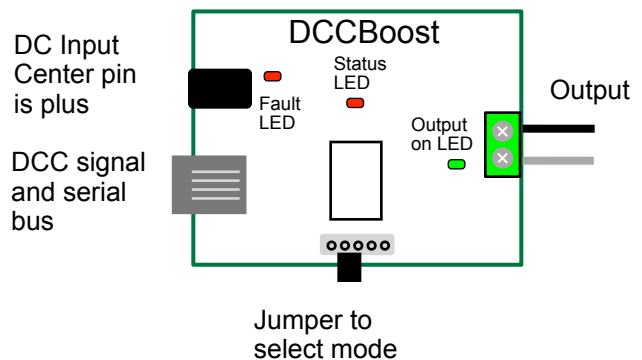
Description

The DCCBoost is a DCC booster to power track or accessories. It has three modes.

1. Basic DCC booster mode. The DCCBoost output follows the DCC signal input. If the input DCC turns off for some reason then the DCCBoost turns off.
2. Accessory mode. The DCCBoost output continues to send DCC power regardless of the DCC signal input. This keeps accessories from shutting down due to track short circuits or over current conditions (fault).
3. Command station mode. The DCCBoost converts switch and signal messages on the serial bus from the CSC (Central Signal Controller) to DCC packets to control the SHD2. It also powers the SHD2 and other compatible accessories.

Recommended power supply voltage for the DCCBoost is 12 to 14 volt DC. The maximum continuous operating current is 4 amps. The over current shutdown is about 4.6 amps.

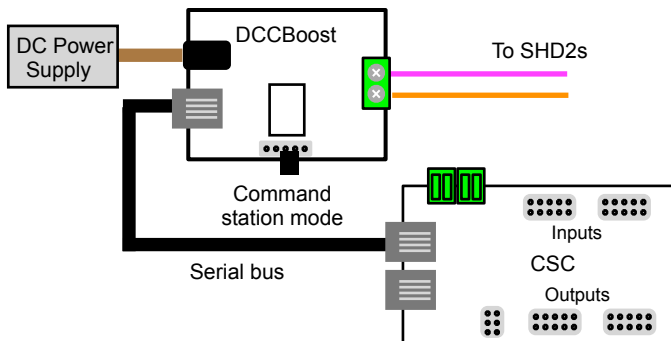
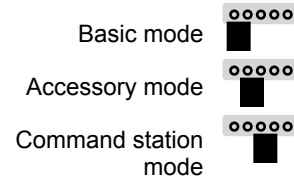
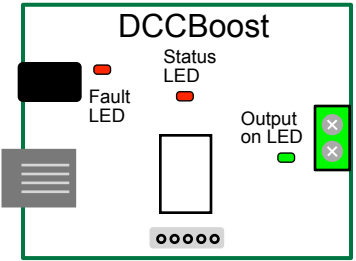
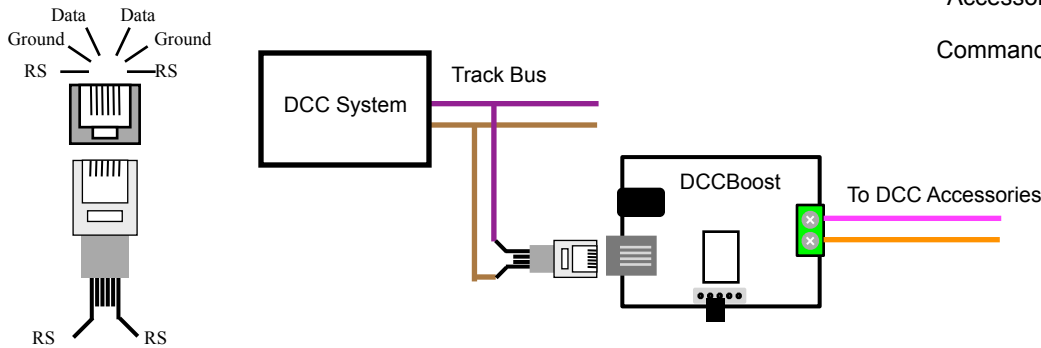
DC power jack barrel connector is 5.5mm-x-2.1mm with center pin plus.



Getting Started

The DCCBoost comes from the factory ready to use in the accessory mode. If you want to change the mode do so when the power is off. Set the jumper on the two pins as shown in the diagram.

The DCCBoost has a RJ12 6 pin connector that uses the RS pins (rail sync) for the DCC signal input for the basic and accessory modes. If you are using a Digitrax system plug a locoNet cable into the 6 pin connector. If you are using another system like NCE or MRC make a plug as shown in the diagram. Connect the RS wires to the track output of your DCC system.



The DCCBoost can be used with the Team Digital Central Signal Controller (CSC). In this application the DCCBoost is set for command station mode. The DCCBoost receives signal message from the CSC and converts them into DCC packets to control Signal Head Decoder 2s (SHD2). In the command station mode the data and ground pins are used. Use a 6 wire cable that will plug into the DCCBoost and a CSC.

LED Indicators

The fault LED indicates when an output short or overload condition occurs. It is also on for about 3 seconds when the DCCBoost is powered on. The Status LED indicates the DCCBoost is operating and flashes about every 3 seconds. The Output On LED indicates power is applied to the output.

Mounting

It is OK to use metal screws for mount the DCCBoost board, but do not mount to a metal surface.