

**Models:**

GENII 485I

**GENII 485I****Isolated RS485 Comms for Genesis II****Overview**

The GENII 485I isolated RS485 Comms plug protects the RS485 chip sets on the GENESIS II Digital Controller against medium level spikes, or transient earth problems between GENESIS devices.

**Features**

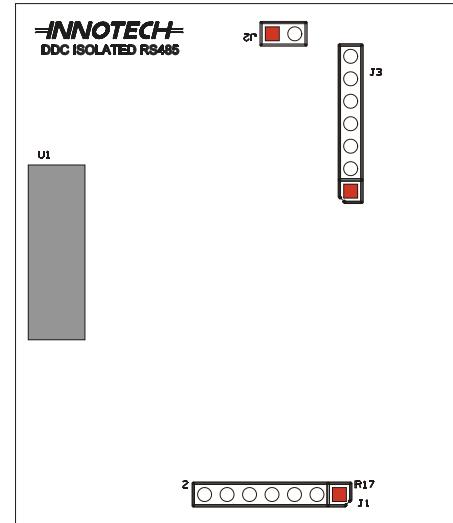
- Prevents “earth loop” problems on the Net and Global comms channels
- Isolation prevents earth fault currents from other equipment flowing through the GENESIS II Digital Controller comms cables

**Protection Level**

The device itself typically withstands 1400V RMS across the isolation barrier for one minute, or 130V RMS continuously in a non-condensing atmosphere.

**Application Notes**

The GENII 485I isolated RS485 Comms plug is designed for applications where the earth potential between the GENESIS II Digital Controllers’ is greater than 3 or 4 volts or where there is a risk of the differential earth voltage creating a dangerous condition.

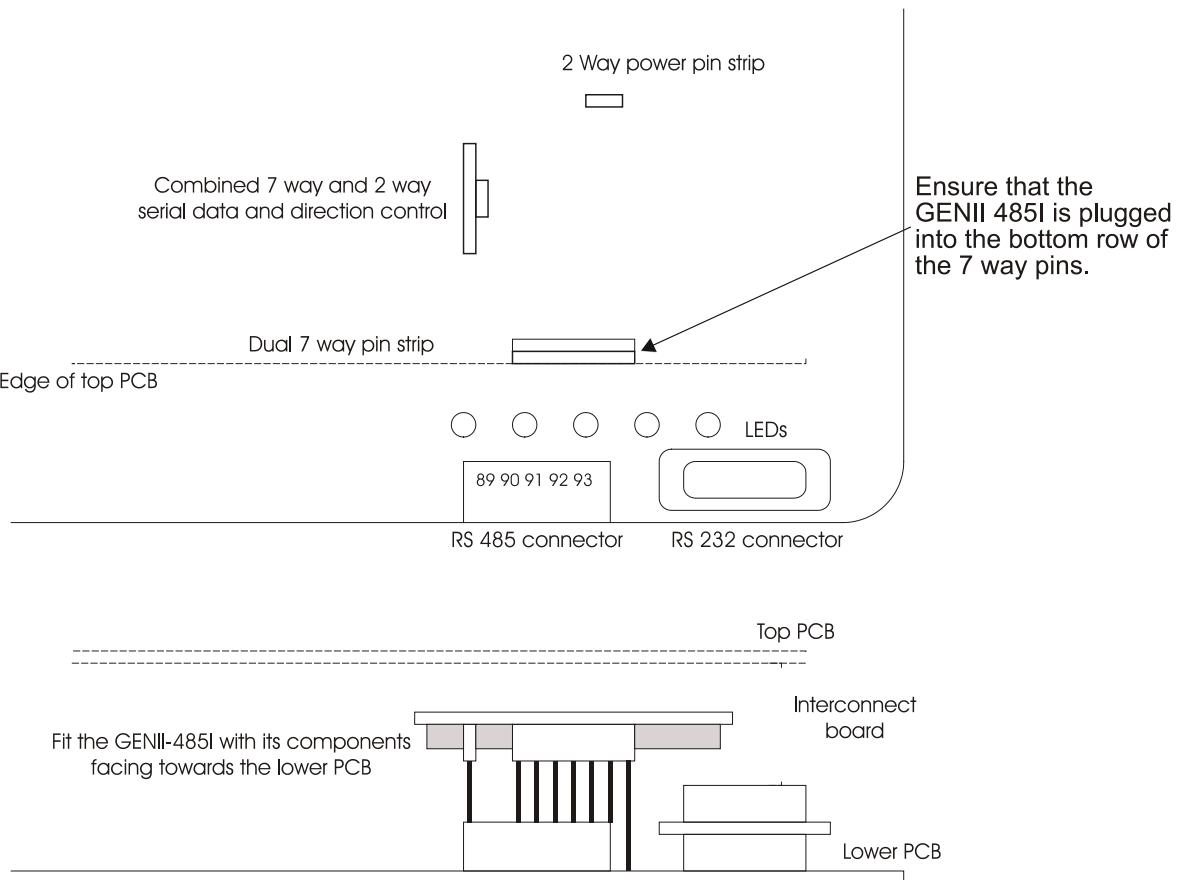
**Applications**

The GENII 485I is a plug in solution to provide isolated RS485 communications between GENESIS devices on a network.

**Installation**

The GENII 485I isolated RS485 Comms plug is fitted to a GENESIS II Digital Controller in the following manner:

1. Power down the GENESIS II Digital Controller.
2. Remove the GENESIS II Digital Controller front cover.
3. Locate the position of the RS485 connections on the bottom printed circuit board.
4. Remove all of the shunt headers and install the GENII 485I Isolated RS485 Comms plug as shown, ensuring that it is plugged into the bottom row of the dual 7 way pin strip.
5. Replace the top board taking care to locate the shunts connecting the top and bottom boards correctly.
6. Replace the GENESIS II Digital Controller front cover and re-power.



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