

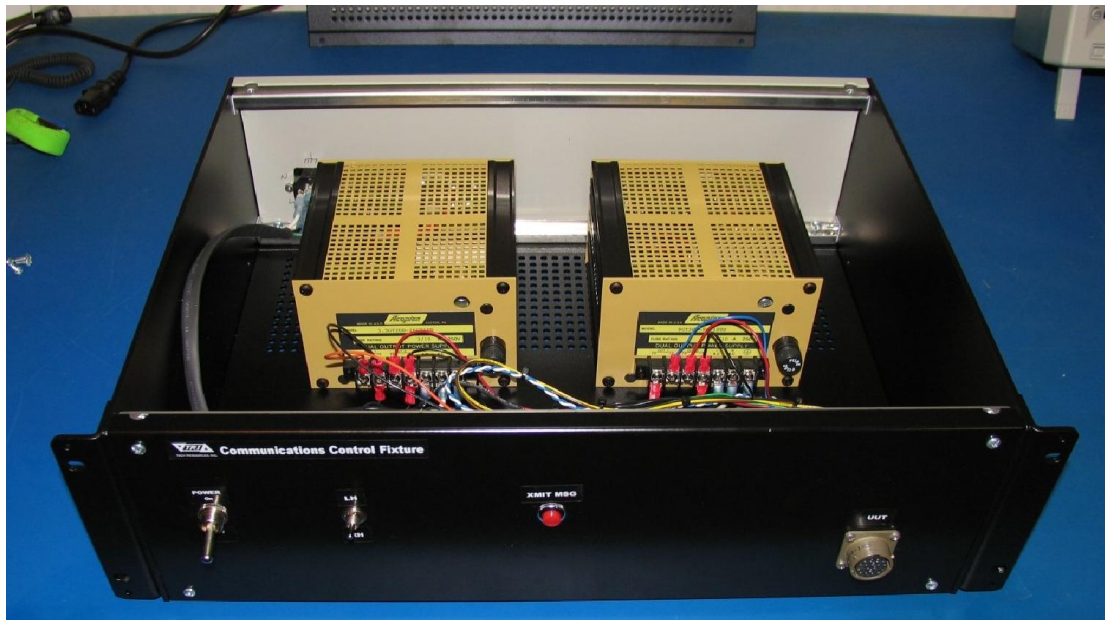
Chuck Brodeur

FPGA-based Test Chassis

The client required a custom test chassis that could provide a set number of serial communications messages to be sent via RS485, as prompted by a user. The chassis also needed to provide multiple voltages to the unit under test. A small number of systems (<4) was expected to ever be needed.

To keep the cost down, a simple PCB was designed using an inexpensive Xilinx FPGA to generate the required communications streams based upon front panel inputs. Off-the shelf power supplies and a chassis were selected. Wiring diagrams and BOMs were also generated and supplied.

The PCB and chassis were hand assembled (2 units) and tested.



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