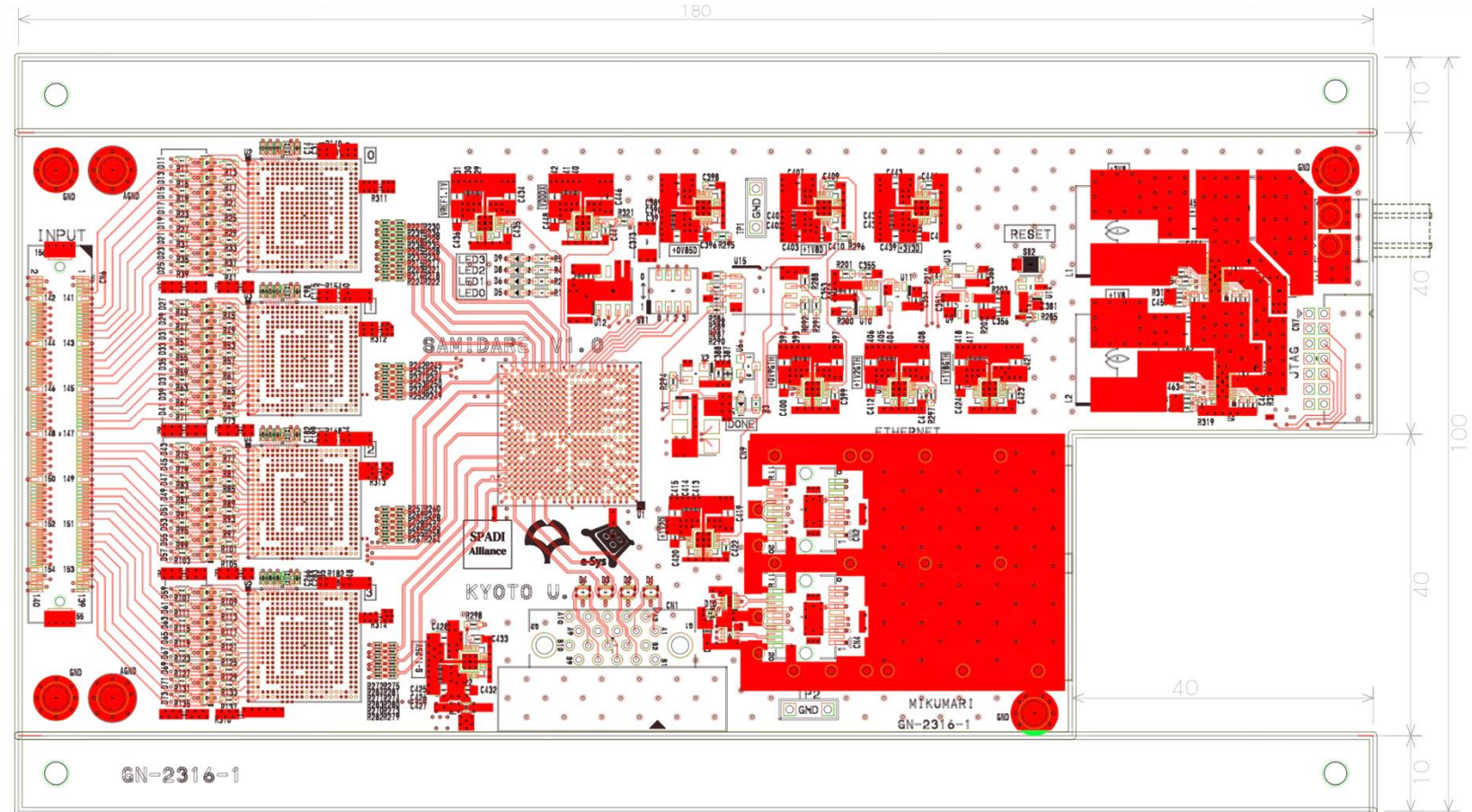


# Development of the SAMIDARE Board: A New Acquisition System for TPCs

Poster #140 - C. Santonastaso et al.

## WHY A NEW TPC READOUT BOARD?

- GET electronics is becoming obsolete.
- High-intensity beams require higher-throughput TPC readout.
- Active-target TPCs need many channels and online background rejection.
- Towards streaming-capable TPC front-end electronics.



# Development of the SAMIDARE Board: A New Acquisition System for TPCs

Poster #140 - C. Santonastaso et al.

## STATUS

- ✓ Prototype board produced
- ✓ FPGA Firmware + Companion DAQ software developed
- ✓ Early application in physics experiment\*
- ✓ Mass production

## WHAT'S NEXT

- Multi-board synchronization
- Application on newly developed TPC for alpha-scattering TRIP Experiment



\* Poster #194 F. Endo