Overview:

Take the KOTO differential analog signal and split it into two. One will go to the 14bit Flash-ADC board and one will go to a Differential-to-NIM convertor board.

Power Requirements:

- Voltage rails - +5VDC, -5VDC, GND
- Power budget = NONE

Form Factor:

- EuroCard-6U size
- No back plane used
- Place input ports on back, one output port on front, one output port on back

Connectors:

- All inputs and outputs will be connected to RJ45 ethernet female ports, no magnetics
- Each channel consists of a pair nets (p & n)
- A total of 8 ch. Input; 16 ch. Output
- 5pin power connector (+5VDC, -5VDC, GND)

Controlled impedance:

- Each channel pair will have 100ohms differential impedance

Logic Family:

- Unique KOTO analog logic (see figure 1)
- 10ns trise, 40ns tfall, +/- 1.5V amplitude