The KOTO CsI Calorimeter has 2,600 channels and is read out with 16-ch, 14-bit, 125MHz ADC modules, designed and produced in 2010 at the University of Chicago.

This new 16-ch, 14-bit, 500 MHz ADC module has the same form factor and power requirements as the current ADC module used in KOTO. It is proposed as a direct replacement with great performance improvements in terms of sampling and data rate.
Performance: Crosstalk and Noise Test

Aggressor and Victim channels share the same RJ45 port and ADC package

Aggressor: 12,000 LSBpp

2ns per sample

Victim: ~ 2.6LSBrms

No Crosstalk Recorded in Victim Channel

New 14-Bit 500 MHz ADC

Input Noise ~ 2.6 LSB_{RMS}