

Sampler - 8-channel, 16-bit ADC

Sampler (Fig. 2) is an 8-channel, 16-bit analog to digital converter (ADC) EEM with an update rate of up to 1.5 MSPs (all channels simultaneously) and 200 kHz analog bandwidth. It has a low-noise differential front end with a digitally programmable gain, providing full-scale input ranges between $\pm 10\text{mV}$ ($G=1000$) and $\pm 10\text{V}$ ($G=1$). Inputs are differential with switchable $50\ \Omega$ termination. The ADC used is the LTC2320-16 ADC and the programmable gain input amplifier (PGIA) is the AD8253. The latest release 2.2 was published on 27th July 2018.

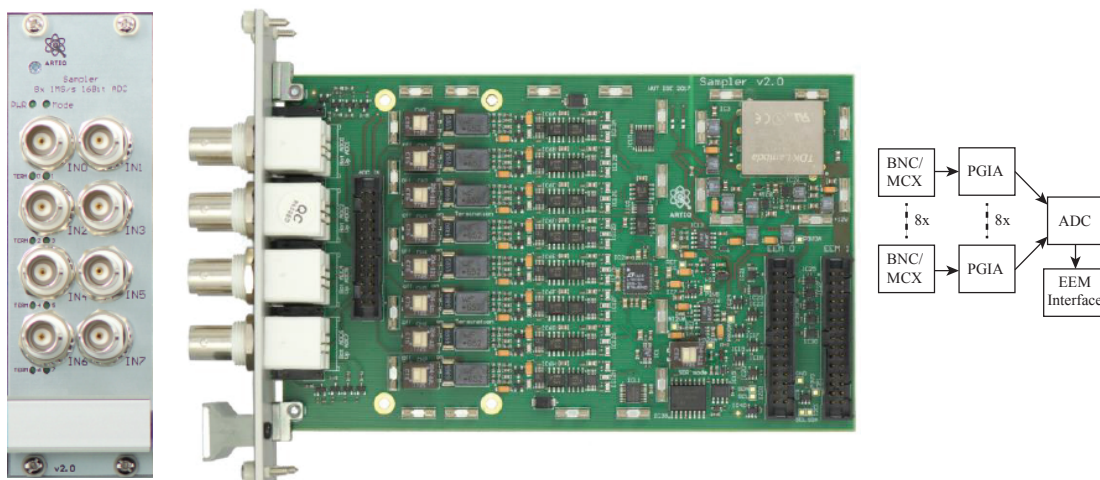


FIG. 2. Sampler