High Speed Data Acquisition

Introduction

The e-ADS16 is an e-Bus x 1 (similar to PCI-E x1) module that provides 16-ch Analog Input. With a FIFO of 2048 samples, the maximum sampling rate is up to 200 kS/s with 16 16-bit A/D converters simultaneously sampling on each channel. The module has two channels timer/counter. This module needs to be installed on an e-Bus x1 slot of the AXP-9000-IoT Programmable Automation Controller (PAC).

e-ADS16 supports more kinds of trigger modes for A/D conversion: software trigger, internal pacer trigger and external pacer trigger. The software trigger can acquire a sample whenever needed, while the internal pacer saves CPU loading by triggering the sampling at pre-programmed frequency. An external pacer can be used for triggering by external frequency source.

200K Hz Max. Sampling Rate