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Simple parallel to serial stream converter for Active Pixel Sensor readout for experiment STAR

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This paper will describe a new electronic module for conversion of parallel data flow to serial stream in USB2 full handshake mode (named in this paper as converter). The converter is used for investigation of active pixel sensors in NPI of ASCR and in LBL APS group. Readout DAQ software can be run on Win XP OS and Linux OS using this converter. GUI example for DAQ was prepared in Lab Windows and Lab View. The module was designed using virtual periphery concept and it can be easy adapted for many similar tasks for parallel to serial data stream conversion.

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