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A Raspberry Pi based multi-channel data acquisition system

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We present a summary of a commercial off the shelf data acquisition project to demonstrate the ability to use a Raspberry Pi as a data acquisition system for a multi channel readout of sensors. The system realised was capable of reading out with a 150ns sampling rate and had a 16 channel capability (expandable to 32 channels) with a touch screen interface. This could be used for radiation detection, or coupled with other types of sensor.

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