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The waveform sample system based on TCP/IP transmission

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Aiming at achieving the charge and timing of signal from Gas Electron Multiplier at the same time, a waveform sample system of 200 channels based on VME is developed with 40 MHz waveform sample rate and 16 ADC bits. Considering the flexibility, the board structure is mother board pulse daughter board. In order to simplifying the system, the 1 Gbps TCP/IP protocol based on SiTCP is used for communication between the mother board and server.The test shows that the system meet the application requirements of 1 kHz trigger rate.

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