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## Digital Readout Board for CMS and TOTEM Precision Proton Spectrometer Timing Upgrade Project

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For the CMS and TOTEM Precision Proton Spectrometer Project, a digital readout board was designed to take front-end data of the Diamond and Ultra-Fast Silicon Detectors, reformat the data timing packets, and transmit them to the CMS and TOTEM data acquisition systems through optical data links. This board is capable of having SAMPIC or HPTDC mezzanines for high-resolution timing measurement of the leading and trailing edges in the hit pulses with the resolution of 10 - 20 ps.

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