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EPICS Support for EIC Common Platform Hardware

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The Electron-Ion Collider (EIC) is a significant upgrade to accelerator complex at Brookhaven National Lab. To service the control system requirements of the project a new hardware system is being developed named the Common Hardware Platform (CHP). The CHP will be a 2U 'pizza box' style rackmount chassis containing a motherboard with two slots for pluggable multifunction daughterboards. Different types of daughterboards are being developed for applications such as beam instrumentation, low level RF, machine protection, power supply monitoring, timing distribution, and others. The motherboard will be the primary interface between the daughterboards and the EPICS control system network. The interface design between CHP systems and the EPICS control system is presented.

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