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Design of a concentrator for CMS trigger upgrade

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The CMS trigger system after phase I upgrade will be working with a 10 Gbps line rate asynchronously between modules, but the data output rate from the Muon Endcap RPC link board is 1.6 Gbps, so concentration from 1.6 Gbps to 10Gbps with fanout function is needed. A so-called Concentration Pre-Processing and Fan-out(CPPF) module has been designed for this purpose with processing and fan-out functionalities. This paper describes the design of this module which is in a double width single height MTCA compliant AMC module. The test and joint test with RPC-LB and MTF7 will be given.

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