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CMS HL-LHC Pixel Detector Electronic Readout

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In the High Luminosity-LHC, the CMS Tracker will deliver data with gigabit rate. The pixel detector will be read out using a custom chip developed by the RD-53 collaboration. Low-mass, high bandwidth electrical links transfer the data at a speed of 1.28 Gbps from the readout chip to a low power gigabit transceiver. This transceiver will further send the serialized data at the rate of 10 Gbps through optical links to the Tracker backend electronics. The design, development, and plans for this readout chain will be discussed.

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