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High-Speed Electrical Links on Low Mass Cables for CMS Inner Tracker Phase-2 Upgrade

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Summary

In the High Luminosity-LHC, the CMS Tracker will deliver data with gigabit rate. We present the requirements, design, and performance of low-mass, high bandwidth electrical links that will transfer the data at the speed of 1.28 Gbps from CMS Pixel 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.

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