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The KM3NeT-IT Tower data acquisition and data transport electronics

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The KM3NeT European project has entered the production stage of a large volume neutrino telescope that will be deployed at about 100 km off the Sicily coast. The forthcoming installation includes 24 strings, equipped with multi-PMT optical modules, and 8 towers. The KM3NeT tower design is based on the NEMO Phase-2 prototype tower, deployed in March 2013. In order to optimize production costs, power consumption, usability and to simplify calibration procedures, the whole electronics chain has been re-engineered and partially re-designed by taking advantage of the previously gained experience and technological progress. The aim of this contribution is to give a description of electronics, including front-end, data transport and clock distribution systems, and data acquisition, of the KM3NeT towers.

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