

Quanta 70



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Testing methodology

Throughput testing was carried out on a laboratory bench, which consists of two radio devices and the communication channel established between them. A device for traffic generation, operating according to RFC2544 standard, is connected to the GE0 interfaces of radio devices.

The traffic generator creates data streams consisting of UDP datagrams with a specified length: for unidirectional test - one data stream from Master to Slave, for bidirectional test - two data streams, from Master to Slave and from Slave to Master. Throughput test is performed in bidirectional mode, delay test is performed in unidirectional mode with 90%-channel loading. In addition, testing is performed for various modulation code schemes and frame sizes.

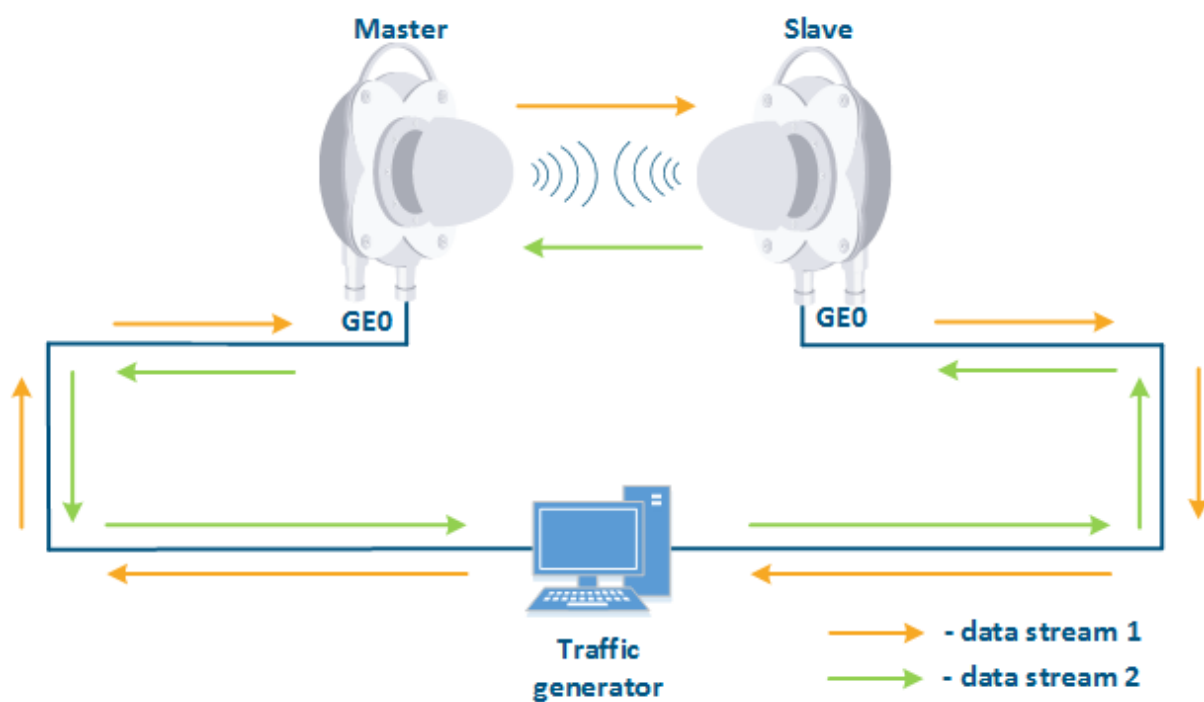


Figure 1 - Bidirectional throughput test

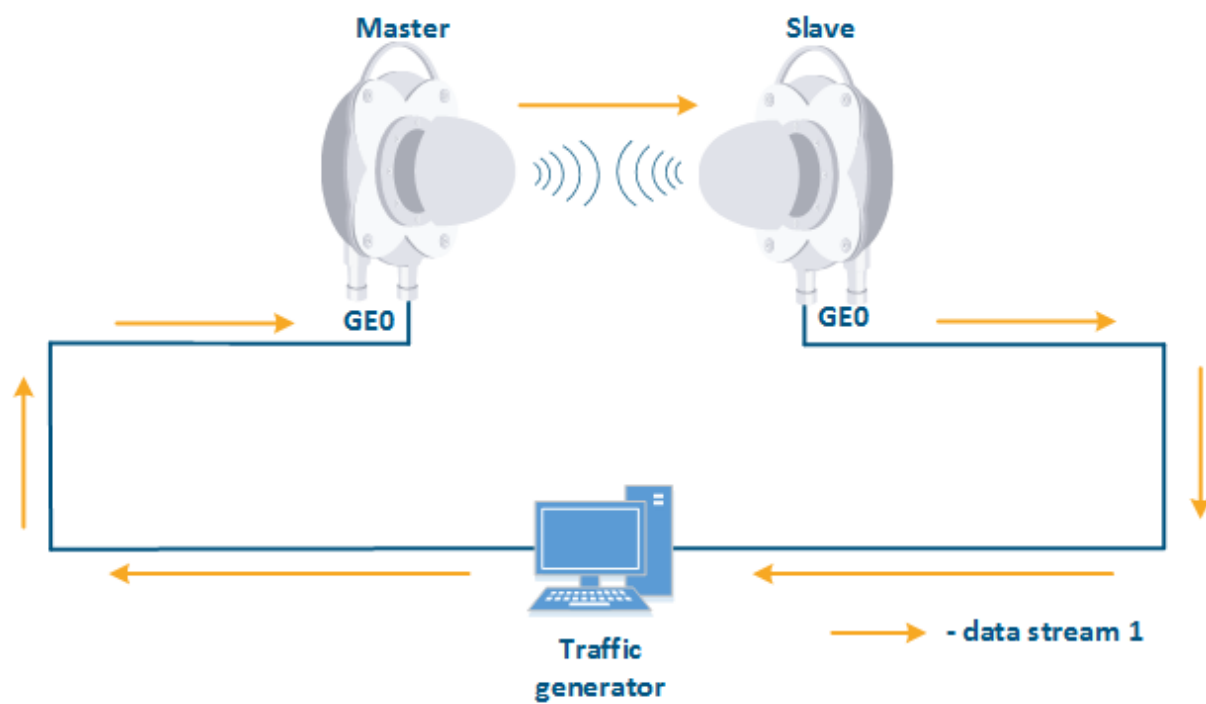


Figure 2 - Unidirectional throughput test

Software version

The software version installed on the device affects performance, stability, and the range of features available for configuration. In this section, testing was performed on the following software versions:

- Software ver. 0.9.1 build date 18.02.2020.