

# MQAM system

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MQAM system is composed of four blocks: a transmitter, a receiver, a communication channel and a block that performs a Bit Error Rate (BER) measurement. The schematic representation of the system is presented in figure 1.

## MQAM transmitter

A complete description of the MQAM transmitter either block by block or as a whole can be found in the *lib* repository.

This block generates one or two optical signals. It also generates a binary signal that is used to perform a BER measurement.

## Communication channel

The communication channel has only thermal noise.

## MQAM receiver

## BER measurement block

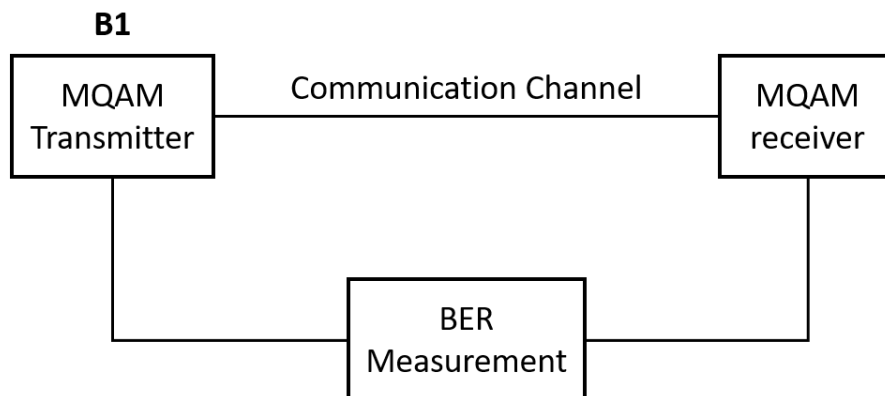


Figure 1: Schematic representation of the MQAM system.