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ABSTRACT

Known for its high efficiency in detecting error on transmitted data, CRC (Cyclic Redundancy Check) comes in 4 common types, namely: CRC-12, CRC-16, CRC-CCITT and CRC-32. This project presents the features of the 4 CRC's and their applications in the field of data communication. A module combining the 4 CRCs into one programmable circuit shall be designed. This will then be implemented as one chip using VLSI technology with the help of CAD (Computer Aided Design) tools. Hardware implementation and software simulation shall be provided to verify the validity of the design.

