

The purpose of my project was to investigate how data can be transferred over an optical link in an inexpensive matter. After doing some research I figured out that Toslink is a cheap FiberOptic solution that can be used to transfer regular data. I researched a couple possible interfaces to attach the convertor to the computer and decided to use the RS 232 (Serial Port) connection due to it's ease of use. The project was designed in four parts first: design and breadboarding of the convertor, second: building the prototype of the convertor third: writing the communication software fourth: testing the prototype convertor.