

Project Microcomputer Serial Port Interfacing with Microcontroller
 via Optical Fiber

Researcher Mr.Prayoot Akkaraekthalin

Office Department of Electrical Engineering
 Faculty of Engineering

Telephone 02-913-2500 ext. 8518

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Abstract

This research is to apply an optical communication system for enhancing performances of serial ports, standard devices of all microcomputers, including higher capacity and distance. The author has studied, designed and tested an optical communication system for transmitting data between a microcomputer and two microcontrollers using a time division multiplexing technique. It has been found that the proposed system can obtain high speed data transmission, effective cost, high security and low error rate, therefore it may be developed for ultra high speed transmission systems.