DATA COMMUNICATION BETWEEN 2 PC USING LASER

Name Of Student : Setio Aji Sunarto
Registration Number : 2207030007
Name Of Student : Lalu Arry Tri Laksono
Registration Number : 2207030032
Counsellor : Ir. Hendra Kusuma, M.Eng.
ID : 19640902 198903 1003

Abstract

Use of data communication between computers by using the connector cable is a very commonly used for exchanging data between a PC with other PCs. Use of the cable can be quite troublesome because the cables are often broken due to bending and interested when moving the position of the PC.

To solve the problem then be made to the communication of data between PCs using wireless media, such as wireless, infrared to bluetooth. wireless media is used such as laser pointer with a media receiver using photodiode circuit. Data communication circuit between two PCs using this laser system composed of a microcontroller ATMega16 minimum, +5 Volt power supply, laser pointers and photodiode, a series of RS232, USB to serial RS232 converter. This application can perform its data communications such as the chat application, the PC can exchange character data.

The medium which used to construct tool laser light as a transmission medium to bridge the exchange of data between two PCs. The results are expected between 2 PC are they can chatting with a maximum distance of 5 meters in accordance with a laser pointer in the ability to transmit data to the photodiode.

Keyword : Laser Pointer, Photodiode, Transmitter, Receiver, Microcontroller
Halaman ini sengaja dikosongkan