

VISIBLE LIGHT COMMUNICATION FOR VIDEO TRANSMISSION

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It is almost impossible to imagine a world without internet. Currently, the internet is not just connecting different computers and users but also does more than that. Wifi (wireless fidelity) is commonly used for local area networking of devices and Internet access. However this technology has certain shortcomings. Long exposure to the radio waves associated with wifi leads to health issues also its transmission speed is about 10Mbps only with high rate of congestion being another concern. Li-fi,an emerging wireless optical networking technology uses light-emitting diodes (LEDs) for data transmission and photo detector for data reception. It uses visible light for transmission, there is no health issues associated with it and its transmission speed is 10Gbps. Our project aims to perform video transmission using li-fi technology. We have achieved a rate of 9.6Kbps with a distance of 1.2m between two devices. Here we have used PIC16F877A for controlling serial data communication with the aid of RS232.