

WIRELESS PRINTER USING BLUETOOTH TECHNOLOGY

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ABSTRACT

The aim of the project is to study the protocols of Bluetooth Technology (BT) and design a software programming that will eliminate cable usage between printer and PC. Thus, a wireless connection environment between a PC and a printer is created using BT as a cable replacement. The cable replacement mode will allow the PC to act as the master and printer as the slave. From programming point of view, the two devices look as though they are hardwired together through an RS 232 cable. The software used in developing this program is Microsoft Visual C++ 6.0.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Demand for wireless technology has grown exponentially during the last five years especially in telecommunication and computer industries [1]. Over the last decade telecommunication and computer industries have developed new wireless technology products that enable user to use the product easily and give benefits to the users.

The increasing number of the telecommunication and computer devices is now focused on the concept of connectivity, the idea that different devices can offer more if they can communicate with each other. Most of this connectivity will be provided by radio signals rather than by wires that is messy, difficult to carry around and expensive to install in houses and offices [2].

With BT, user will be able to connect a wide range of telecommunications and computing devices easily and simply, without the need for connecting cables.

1.2 Bluetooth Technology

Bluetooth technology is a developing, world wide, open, short-range radio specification focussed on voice and data communications. It was conceived by Swedish Telecommunications manufacturer (Ericsson) who realized the potential of global short-range wireless communication [3]. The technology centres around a 9mm x 9mm microchip that is made very small, low cost and low power consumption.

BT operates in the unlicensed 2.4 GHz ISM band. Devices that is equipped with bluetooth chip has the ability to communicate between each other up to 10 meters range.