

**IMAGE FILE TRANSFER
VIA THE TELEPHONE LINES
USING THE XMODEM PROTOCOL**

**Thesis is presented in partial fulfilment for the award of the
Advanced Diploma in Electrical Engineering of
INSTITUT TEKNOLOGI MARA**



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JUN 1996

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ACKNOWLEDGEMENT

I would like to thank all my friends who have helped me in one way or another in the completion of my project. My supervisor, Mr Md Zaini Jamaludin, should deserve the highest word of appreciation for his wonderful supervision and concerns. The same word of thanks goes out to Mr Kamal Zuhairi Zamli for some advice on the modem software. Finally, I hope that this project would at least throw some light to those who intend to pursue a similar scope. May God bring us closer to His Guidance in our quest for knowledge. Amiin.

ABSTRACT

This project describes the XModem protocol, which is widely used in PC-to-PC communications. It aims at using this protocol to transfer image files between two remote PCs. The software developed for the protocol is written in the C language with the compiler Turbo C++ version 3.0. Various aspects of the serial communications terms and terminologies are also theoretically briefed out.

CHAPTER 1

1.0 INTRODUCTION

1.1 Method of File Transfer

There are many ways to transfer files between two PCs. The easiest method involved the use of diskettes. The data to be transferred would be copied into the diskettes using the DOS command such as COPY, DISKCOPY or XCOPY. The diskettes thus act as intermediaries between the two PCs. This method, however is not employed in actual data transfers since apart from being time-consuming, it can become impractical when the content of the data to be transferred is immense. One alternative to overcome this limitation would be to directly hard-wiring the two PCs together via their respective serial ports. Clearly enough, the two PCs need to be close to one another. As far as the connector cable is concerned, the RS232 standard limits this separating distance to be not more than 50 feet (14 metres). One reason for this is that if the cable is extensively long, it is very likely that the electrical signal in the cable would be too weak to reach the other end. This built-in