

ABSTRACT

A FILE TRANSFER PROTOCOL

FOR

A

SINGLE BOARD

MICRO-COMPUTER

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This thesis is concerned with the creation of a File Transfer Protocol. In order to accomplish this, three major areas had to be confronted- Hardware design and implementation; Communications Protocols, and Software. With this triad, it is now possible not only to transfer files, but to also have these files transferred to or from a Disk Operating System.

The protocol links two micro-computers and is dependent not only on the hardware (at the core of which is the MC 6854 ADLC chip), but also on the software implementation, which called for a complete Data Link layer as well as the design of a Packet Layer.

The completed system is therefore one which conforms to International Standards and is also compliant to further developments, expansions and implementations.