

# Digital I. C. Tester

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## ABSTRACT

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This report included 6 chapters and all have been compiled in chronological order. The contents of this report include introduction, theories, hardware design, software design, testing results, advantages and disadvantages of the product and end with conclusion.

First and foremost, in the introduction on IC Tester will describe about the use of IC Tester and its objectives. Later on, in this chapter will show you the survey for the existing IC Tester.

Next, different types of digital IC will be discussed in the theory part, chapter 2. This will be included the explanation of the characteristics of TTL and CMOS digital IC. After that, in hardware design (chapter 3), block diagram, circuit diagram and the necessary explanation will be discussed.

The following chapter will be discussed about the software design. In this chapter, you will find the detail explanation on how does the software works with the screenshots of the software. Explanation will be carried out following the flow chart introduced, and each block will be elaborated in details along with the functions that do the job. The source codes of every file involved are provided as appendix for your reference.

In chapter 5, there will be the hardware and software testing chapter which provided you with the observation results, problems and solutions for both component.

The advantages and disadvantages of this product will be discussed in last chapter. The conclusion will be the end of this report. Overall development of this project is concluded. The necessary information will be inserted in the list of references and appendix.