# 8086 Board Design Project

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#### 1 Introduction

The 8086 microprocessor is an enhanced version of the 8085 microprocessor developed by Intel in 1978. It is a 16-bit microprocessor, with 20 address lines and 16 data lines to provide up to 1 MB of physical memory.

#### 1.1 Purpose

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#### 1.2 Scope and Organization of Document

- $2\quad 8086\ {\rm Microprocessor}$
- 2.1 Description
- 2.2 Address and Data Buses
- 2.3 Control Bus

- 3 Decoding
- 3.1 Programming Logic Device 16L8
- 3.2 Programming the PLD

### 4 Clock Generator - 8284

### 4.1 Description