

# Baseline and Mid-Range PIC (6 – 14 pin) Training and Development Board

## *Construction and Operation Guide*

This PIC development board is designed as a training environment specifically for use with the introductory Gooligum baseline, mid-range and enhanced mid-range PIC tutorials<sup>1</sup>.

The tutorials were originally written for Microchip's Low Pin Count Demo Board, which supports 8-, 14- and 20-pin PICs, can be used easily with a PICKit 2 or PICKit 3 programmer, and provides four LEDs, a pushbutton switch and a potentiometer. As such, it's a good, simple introductory board. However, it does not support the 6-pin 10F PICs and its LEDs cannot be used directly with 8-pin PICs.

More significantly, many of the Gooligum baseline and mid-range lessons require the use of parts not included on that board, such as photocells, crystal-driven oscillator circuits, and 7-segment LED displays. Although it is possible to build all of these circuits on a breadboard, connected to the Low Pin Count Demo Board, it is a little cumbersome – especially for some of the more complex circuits.

This training board was developed to make it easy to follow the Gooligum baseline, mid-range and introductory enhanced mid-range lessons. It works with a PICKit 2 or PICKit 3 programmer, and supports all 8- and 14-pin baseline, mid-range and enhanced mid-range PICs, as well as all 6-pin 10F devices (in an 8-pin DIP package). It is fully configurable using the provided jumpers, and comes with all of the hardware needed for every introductory lesson, including all the required PICs.

It features:

- Support for all 6-pin, 8-pin and 14-pin baseline, mid-range and enhanced mid-range PICs (all 10F, 12F and 14-pin 16F devices)
- 2 × pushbuttons (including 'MCLR')
  - optional external pull-up resistor on each pushbutton
- 9 × LEDs
  - an LED is available on each 6-pin and 8-pin PIC output pin, plus pins RC0 – RC3
- 3 × 7-segment LED displays
  - configurable as a single digit or multiplexed digits
- External 32.768 kHz oscillator
  - can be configured to drive processor clock, Timer0 or Timer1
- 4 MHz resonator, 32.768 kHz crystal and resistor/capacitor for use with processor oscillator
  - 32.768 kHz crystal also available for Timer1 oscillator
- Potentiometer and 2 × photocells for use as analog inputs in comparator and ADC lessons
- Variable frequency oscillator for frequency and pulse width measurement lessons
- Piezo sounder, to demonstrate PWM outputs
- Standard ICSP connector for use with PICKit 2 or PICKit 3 programmer

<sup>1</sup> All baseline, mid-range, and introductory enhanced mid-range assembler and C lessons.

# Gooligum Electronics Midrange

**Scott C. Dulebohn**



## **Gooligum Electronics Midrange:**

## Decoding **Gooligum Electronics Midrange**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Gooligum Electronics Midrange**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### Table of Contents **Gooligum Electronics Midrange**

1. Understanding the eBook **Gooligum Electronics Midrange**
  - The Rise of Digital Reading **Gooligum Electronics Midrange**
  - Advantages of eBooks Over Traditional Books
2. Identifying **Gooligum Electronics Midrange**
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an **Gooligum Electronics Midrange**
  - User-Friendly Interface
4. Exploring eBook Recommendations from **Gooligum Electronics Midrange**
  - Personalized Recommendations
  - **Gooligum Electronics Midrange** User Reviews and Ratings
  - **Gooligum Electronics Midrange** and Bestseller Lists

5. Accessing Gooligum Electronics Midrange Free and Paid eBooks
  - Gooligum Electronics Midrange Public Domain eBooks
  - Gooligum Electronics Midrange eBook Subscription Services
  - Gooligum Electronics Midrange Budget-Friendly Options
6. Navigating Gooligum Electronics Midrange eBook Formats
  - ePub, PDF, MOBI, and More
  - Gooligum Electronics Midrange Compatibility with Devices
  - Gooligum Electronics Midrange Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Gooligum Electronics Midrange
  - Highlighting and Note-Taking Gooligum Electronics Midrange
  - Interactive Elements Gooligum Electronics Midrange
8. Staying Engaged with Gooligum Electronics Midrange
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Gooligum Electronics Midrange
9. Balancing eBooks and Physical Books Gooligum Electronics Midrange
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Gooligum Electronics Midrange
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Gooligum Electronics Midrange
  - Setting Reading Goals Gooligum Electronics Midrange
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gooligum Electronics Midrange
  - Fact-Checking eBook Content of Gooligum Electronics Midrange
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

### **Gooligum Electronics Midrange Introduction**

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