



General Description

The Digital Trainer Board is a comprehensive high-quality digital-analog training system designed to support a wide range of fundamental and advanced experiments. Ideal for academic and laboratory use, it integrates a removable breadboard, power supplies, waveform generator, switches, indicators, and other essential components required for circuit design and testing.

Technical Specifications

Breadboard

- **Type:** Solderless, removable, and replaceable
- **Tie Points:** 2820 tie points with nickel-plated contacts
- **Compatibility:** Supports all DIP-sized ICs, discrete components with solid wire (AWG #22–30 / 0.3–0.8 mm)
- **Connectivity:** Can be interfaced with a demonstration panel

DC Power Supply

- **Fixed Outputs:**
 - +5V DC, 1A
 - -5V DC, 1A
- **Variable Outputs:**

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- 0V to +15V DC, 1A
- 0V to -15V DC, 1A

Variable Resistors (Potentiometers)

- VR1: 1 k Ω
- VR2: 100 k Ω

Function Generator

- **Frequency Ranges:**
 - 1 Hz – 10 Hz
 - 10 Hz – 100 Hz
 - 100 Hz – 1 kHz
 - 1 kHz – 10 kHz
 - 10 kHz – 100 kHz
- **Waveform Outputs:**
 - Sine Wave: 0 – 10 Vpp (variable)
 - Triangle Wave: 0 – 10 Vpp (variable)
 - Square Wave: 0 – 10 Vpp (variable)
 - TTL Mode: 4 Vpp

Switches & Input Controls

- **Sixteen-bit Data Switches:**
 - 16 toggle switches with individual output terminals
- **Pulse Switches:**
 - 2 push-button switches with built-in debouncing circuitry

Audio Output

- **Speaker:**
 - 2.5-inch diameter
 - 8 Ω / 0.5 W

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- Suitable for use as output load in audio-related experiments

Indicators & Displays

- **Sixteen-bit LED Display:**
 - 16 independent LEDs with corresponding input terminals
- **7-Segment Display:**
 - 2-digit 7-segment LED display
- **Four-Channel Adaptor:**
 - For flexible input/output configurations

Additional Features

- Universal connector holder integrated on panel for compatibility with various connectors
- Compact and user-friendly design for educational use

Power Requirements

- **Input Voltage:** 220V AC $\pm 10\%$, 50 Hz

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