

Product Information Sheet

Electronics Study Trainer



The Electronics Study Trainer provides the basis for a practical resource that introduces students to core electronics and electronic systems through a wide range of practical activities.

The Study Trainer allows the range of experiment cards to be connected for the practical study of electronics.

These boards can also be used in conjunction with our optional cloud-based software, which offers online practical electronics tasks as well as interactive theory presentations, investigations, and assessments, which link directly to the practical activities carried out using this resource.

The Study Trainer includes input, process, and output devices required for the various circuit investigations.

Faults can also be inserted into the experiment cards via the Motherboard, enabling students to investigate electronic faultfinding techniques.

Devices On-board Trainer:

- Experiment Card Mounting Area
- Eight Logic Sources
- Two De-bounced Press Switches
- Slow and Fast Range Clock
- Two Inverting Buffers
- Buzzer
- Amplifier and Loudspeaker
- Eight Logic Monitors
- Two Seven Segment Displays
- Two Relays
- Three Variable Resistors
- +5V, -12V, +12V Power Supplies
- Switched Faults
- Three Remote Sensor Inputs

Included Component Set:

- A total of 28 components mounted on robust carriers and 2 ICs
- Switches (toggle, microswitch, pushbuttons)
- Lamp
- Resistors (47R, 100R, 1K, 4.7K, 10K, 47K, 100K, 220K, 470K)
- Capacitors (470 nF, 1 μ F, 10 μ F, 100 μ F)
- Inductor (100 mH)
- Sensors (thermistor, phototransistor, microphone)
- Diodes (1N4001, 1N4148)
- Potentiometer (10K)
- Integrated circuits (555 timer, PIC microcontroller)

Other Items Required:

- Experiment Cards from the 320 Series (Optional)
- Some tasks will require a, Dual Trace Oscilloscope (OSC1 or similar) and one or more Multimeters (DM1 or similar)
- Optionally a Virtual Instrumentation Unit (300-03 or similar) may be used.

Items Included:

- Study Trainer
- Component Set
- Connection Lead Set
- Storage Case

General Information:

Power Requirements: 110 – 240V
50-60Hz
Shipping Volume: Approx. 0.024 m³
Shipping Weight: Approx. 4 kg

FOR MORE INFORMATION CONTACT US!



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Order Code: 320-00

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For more information visit www.ljcreate.com