



This electronics study card is designed to connect to the 409-01 Experiment Platform or to the 300-01/300-02 Advanced Electronics Experiment Platforms* as part of a modular electronics programme.

This practical resource introduces students to more advanced digital electronics through a wide range of practical activities.

This module provides a patching board and IC component set that allows students to explore a range of more complex digital devices. This resource is ideal for use within an intermediate electronics program.

The board can be 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.

* **Note:** to connect to 300-01, 300-02, D3000 EXP or D3000 VIP2 you will also need a 409-02 Experiment Card Motherboard.

Practical Tasks Include the Following:

- Decoder and Encoder
- Multiplexer and Demultiplexer
- Magnitude Comparator
- Adders
- Three-State Logic Circuits
- J-K Flip-Flop
- D-Type Flip-Flop
- Shift Registers
- Binary Counters
- Analog Switch
- Counters and 7-Segment Decoders

Items Included:

- Circuit Card
- Storage Case
- Manuals in PDF Format on CDROM

Other Items Required:

- 490-01 Experiment Platform
 - Digital Multimeter
- or*
- 300-02 Advanced Electronics Experiment Platform
 - 409-02 Experiment Card Motherboard

General Information:

Dimensions: 50 x 238 x 175 mm (W, H, D)

Shipping Volume: Approx 0.002 m³

Shipping Weight: Approx 0.35 kg

Order Code: 419-03

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