



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.

A practical resource that introduces students to the fundamentals of digital electronics through a wide range of practical activities.

Students use AND, OR, and NOT logic gates to investigate combinational and sequential logic circuits. This resource is supplied with PDF manuals containing practical tasks and activities.

The board 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.

* **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:

- Transistor-Transistor Logic
- AND, OR, and NOT Gates
- NAND and NOR Gates
- Boolean Expressions and Simplification
- Karnaugh Maps
- The S-R Latch
- Exclusive-OR and Exclusive-NOR Gates
- Troubleshooting an Exclusive-NOR Gate
- Schmitt Trigger Circuits

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: 419-01

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