



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 a variety of amplifier configurations through a wide range of practical activities.

Students will explore the properties of amplifiers and also learn why certain amplifiers are selected for their applications. 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:

- Inverting Operational Amplifier
- Non-Inverting Operational Amplifier
- Amplifier Troubleshooting
- Amplifier Operation at High Frequency
- Other Amplifier Configurations
- Current Amplifiers
- Push-pull Amplifiers
- Power in Push-pull Amplifiers
- Power Amplifier Troubleshooting

### Items Included:

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

### Other Items Required:

- 490-01 Experiment Platform
  - Digital Multimeter
  - Dual Trace Oscilloscope
  - Function Generator
- 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 m<sup>3</sup>  
 Shipping Weight: Approx. 0.35 kg