



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 2-channel, time-division multiplexed PCM Transmitter/Receiver system through a wide range of practical activities.

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:

- Introduction to Pulse Code Modulation
- Time Division Multiplexing of PCM Signals
- Practical Implementation of PCM Module
- PCM Transmission - Clock and Synchronization
- PCM Transmission - Error Detection and Parity

Items Included:

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

Other Items Required:

- 490-01 Experiment Platform
- Dual Trace Oscilloscope
- 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: 421-06

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