PICAXE BUFFER BOX ADAPTER

The PICAXE buffer box adapter allows an old BBC or Acorn 'buffer box' to be used as a PICAXE development system. The adapter contains a PICAXE-28 microcontroller, and connects between the computer and the 25D connector on the buffer box, so the computer 'thinks' it is using the PICAXE system. This allows students to program the buffer box using flowcharts and/or the BASIC language in the Programming Editor software. Supplied with all cables, but requires a 9V power supply. Buffer box not included!

Buffer Box Adapter:	**AXE-060**
9V DC Power Supply:	**PWR-009**

BUGGY MODEL

The buggy is a mobile robot controlled by an on-board PICAXE-18 microcontroller. The buggy has micro-switch sensors, LED eyes, a piezo sounder and worm drive gearboxes using high quality solar motors. Supplied in kit form with download cable. Requires 4xAA batteries.

Buggy Model:	**MOD-001**
AA Batteries:	**BAT-002**

WASHING MACHINE MODEL

The robust washing machine model is controlled by an internal PICAXE-18 microcontroller and has an internal 'drum' that can be rotated in either direction at variable speeds. The door contains both a micro-switch sensor and solenoid bolt to mimic real-life. The washing machine is supplied in self-assembly kit form and also requires a 9 way download cable and 9V power supply.

Washing Machine Model:	**MOD-002**
Serial Cable (9 way D):	**CAB-010**
9V DC Power Supply:	**PWR-009**

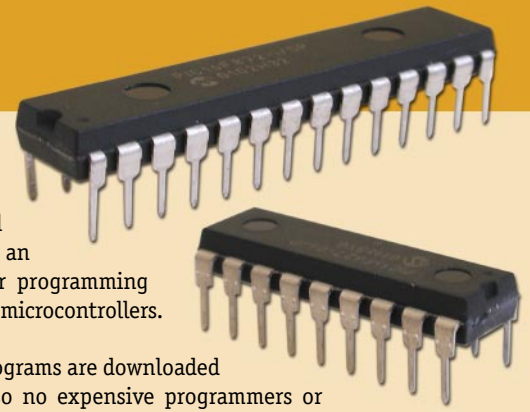
BANK SAFE MODEL

The bank safe model has a 'keypad' style panel for entry of 'secret' pin numbers, programmed by the students in their BASIC program for the internal PICAXE-18 microcontroller. A solenoid bolt and siren add to the variety of tasks that can be completed with this project. The bank safe is supplied in self-assembly kit form and also requires a 9 way download cable and 9V power supply

Bank Safe Model:	**MOD-003**
Serial Cable (9 way D):	**CAB-010**
9V DC Power Supply:	**PWR-009**

For further information and the latest prices please see: *www.picaxe.co.uk*

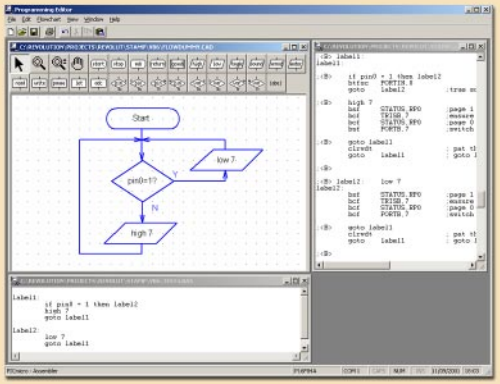
PICAXE



Microcontrollers are exciting new electronic 'single chip computers' that are rapidly being introduced into industry and education. The 'PICAXE' system is an extremely powerful, yet low cost, microcontroller programming system designed for educational and hobbyist use of microcontrollers.

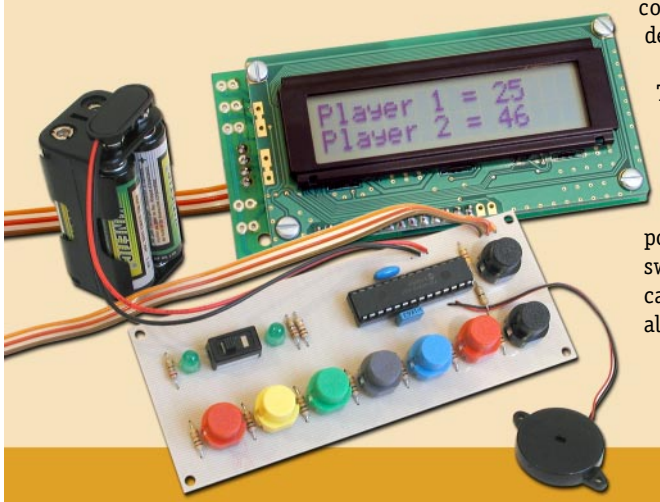
The unique feature of the PICAXE system is that programs are downloaded via a direct cable link into the microcontroller, so no expensive programmers or erasers are required. The software is free, and so this low cost approach means that students can use the whole programming system at home with their project.

Programs can be created graphically using flowcharts, or programmatically using a simple BASIC style language, within the free 'Programming Editor' software. If desired, complete circuit simulations can also be carried out using the Crocodile Technology software (available separately).



The PICAXE system is available in three sizes. The 8-pin version provides 5 input/output pins. The 18-pin version provides 8 outputs and 5 inputs and the 28-pin version provides 8 outputs, 8 inputs and 4 separate analogue inputs.

Included within the software are comprehensive manuals that explain how to use the system, how to draw flowcharts and use the BASIC language, and detailed instructions on how to build your own circuits. An electronics 'interfacing' guide also explains how to connect the system to over 50 common input and output electronic devices.



This photo shows a sample GCSE student project, built using a PICAXE-28 chip. The project is a snooker scoring device, with a number of coloured switches representing each ball. When a ball is potted the player pushes the correct colour switch and the score is automatically calculated, and then displayed on an alphanumeric text display.

PICAXE-18 SYSTEM

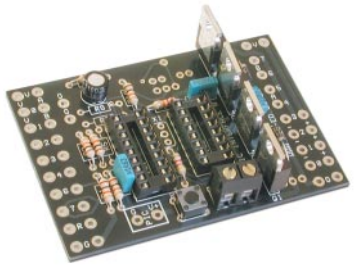
The PICAXE-18 standard interface board provides a pre-assembled board fitted with a darlington driver chip so that output devices such as motors and buzzers can be connected directly to the board. This allows students to rapidly develop circuits without having to manufacture their own circuit board.

The PICAXE-18 starter pack contains one project board, PICAXE-18 chip, battery box, download cable, and CDROM containing the software and manuals.

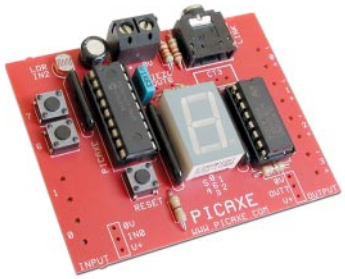
PICAXE-18 Starter Pack:	**AXE-002**
Standard Project Board:	**CHI-030**
Single PICAXE-18 chip:	**AXE-015**
PICAXE-18 chip (ten pack):	**AXE-016**

PICAXE-18 HIGH POWER BOARD

The PICAXE-18 high power interface board provides four high power FET drivers to drive high current output devices. By addition of the optional L293D motor driver chip, an additional 2 motor control outputs can be added to the board. This provides full forward-stop-reverse control for two motors.



High Power Project Board:	**CHI-035**
L293D Motor Driver IC:	**IC-030**



PICAXE-18 TUTORIAL BOARD

The PICAXE-18 tutorial board is a small board with pre-assembled switches, light sensor and seven segment display. The board is supplied with a comprehensive tutorial guide which demonstrates how to use the software and hardware. The board also contains darlington output drivers for connection of external devices such as stepper motors for extension exercises. Supplied with download cable and CDROM with extensive tutorial manuals.

Tutorial Board Pack:	**AXE-050**

SERIAL LCD/CLOCK MODULE

The serial LCD/clock module is a low-cost module that allows the PICAXE system to display messages on an alphanumeric display (16x2 display is included with the module). This allows programs to, for instance, show the scores of a game or the reading from a temperature sensor.

The optional clock upgrade chip adds real time clock and alarm features to the module. This allows the PICAXE to carry out tasks at precisely timed intervals (between 10 seconds and 1 year), aswell as display the current time on the LCD.

Serial LCD/Clock Module:	**AXE-033**
Clock Upgrade Chip:	**AXE-034**

PICAXE-28 SYSTEM

The PICAXE-28 project board provides a pre-assembled board fitted with a darlington driver chip so that output devices such as motors and buzzers can be connected directly to the board. Input devices such as switches and LDRs can also be connected to the input connectors. This allows students to rapidly develop circuits without having to manufacture their own circuit board. By addition of the optional motor driver chip, an additional 2 motor control outputs can be added to the board. This provides full forward-stop-reverse control for two motors.

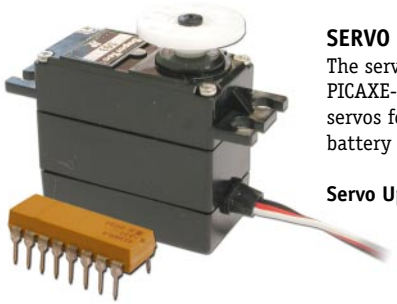
The PICAXE-28 starter pack contains one project board, PICAXE-28 chip, battery box, download cable, and CDROM containing the software and manuals.

PICAXE-28 Starter Pack:	**AXE-001**	**Single PICAXE-28 chip:**	**AXE-010**
PICAXE-28 Project Board:	**AXE-020**	**PICAXE-28 chip (ten pack):**	**AXE-011**
L293D Motor Driver IC:	**IC-030**		

INFRARED UPGRADE PACK

The infrared upgrade pack enables the PICAXE-28 system to react to infrared signals from a TV style remote control. The upgrade pack contains a TV style remote control, infrared receiver and all electronic components necessary to interface to the PICAXE-28 project board.

Infrared Upgrade Pack:	**AXE-040**



SERVO UPGRADE PACK

The servo upgrade pack includes the components to convert the PICAXE-28 project board to support up to 8 radio control style servos for 'robot' applications. Includes one radio control servo, battery box and components.

Servo Upgrade Pack:	**AXE-030**

PICAXE DOWNLOAD CABLES

The older 3-pin connector download cable which was used with the original PICAXE-28 project boards.

PICAXE 3 pin cable:	**AXE-025**

The recommended stereo connector download cable as now used on all project boards.

PICAXE stereo cable:	**AXE-026**