

## **FEATURES**

### **7 RFID Tags – How They Work**

*RFID tags are set to replace barcode labelling systems and could even be used to identify people. Here's how they work – by Peter Smith*

### **12 Solar Power For Caravans & Motor-Homes**

*Want to go solar when you go bush? Here's how to avoid the traps – by Collyn Rivers*

## **PROJECTS TO BUILD**

### **22 Smart Card Reader & Programmer**

*It hooks up to the serial port of your PC and lets you program both the microcontroller & EEPROM in "Gold" wafer smart cards – by Peter Smith*

### **32 PowerUp: Turns Peripherals On Automatically**

*Tired of flicking multiple power switches to turn on your PC or stereo system? Build this circuit and you'll only have to flick one switch – by John Clarke*

### **60 A "Smart" Slave Flash Trigger**

*Does your camera's flash operate in red-eye reduction (multiple flash) mode only? This clever unit counts the number of "pre-flashes" before triggering a slave flash unit – by Jim Rowe*

### **68 A Programmable Continuity Tester**

*Easy-to-build unit lets you set the continuity "pass" threshold to anywhere between  $1\Omega$  and  $100\Omega$ . It makes an ideal go/no-go tester – by Trent Jackson*

### **74 The PICAXE Pt.6: Data Communications**

*PICAXEs can actually talk to each other via a piece of wet string (but you might want to use wire) – by Stan Swan*

### **79 Updating The PIC Programmer & Checkerboard**

*Here's how to use it with Windows 2000/XP and PCs running faster than 1GHz – by Peter Smith*

## **SPECIAL COLUMNS**

### **40 Serviceman's Log**

*Faults in unfamiliar models – by the TV Serviceman*

### **56 Circuit Notebook**

*(1) Infrared Remote Receiver Has Four Outputs; (2) Wide-Range Inductance Meter; (3) Simple Circuit Charges Up To 12 Nicads; (4) Simple Knock Alarm With Piezo Sensor; (5) Gym Agility Strategy Game; (6) Adding A 100V Line Transformer To The SC480 Amplifier Module*

### **82 Vintage Radio**

*The "Jelly Mould" STC 205 Mantel/Table Receiver – by Rodney Champness*