

# Features

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*This month, we look at how program and data information is multiplexed within the transmission – by Alan Hughes*

## 14 Wireless Networking With Ubuntu & Puppy Linux

*Wireless networking in Linux is easy Here's how to do it for Ubuntu and Puppy Linux. We also tell you how to lock down a wireless network, to stop freeloaders from stealing your bandwidth – by Greg Swain*

## 76 Review: Tektronix MSO2024 Mixed Signal Oscilloscope

*It's suitable for a wide range of applications & features four analog and 16 digital inputs, a 1Gs/s sampling rate & a 200MHz bandwidth – by Mauro Grassi*

## 85 Half-Duplex With HopeRF's HM-TR UHF Transceivers

*Using a PICAXE to drive HopeRF's HM-TR 433MHz programmable data transceivers works really well – by Stan Swan*

# Projects To Build

## 22 Multi-Function Remote-Controlled Lamp Dimmer

*A dimmer is just a dimmer, right? This little beauty will change your mind. It has five modes of operation and can be controlled using virtually any universal remote – by Mauro Grassi*

## 36 School Zone Speed Alert

*Protect your driver's licence and your wallet with this project. It flashes a warning LED during the 40km/h school speed zone times – by Jim Rowe*

## 42 USB Printer Share Switch

*Easy-to-build project lets you switch a USB printer or some other USB device between two PCs – by Jim Rowe & Greg Swain*

## 58 Build A Microcurrent DMM Adaptor

*Your digital multimeter can not make accurate current measurements in low-voltage circuits. This low-cost precision current adaptor solves that problem – by David L. Jones*

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## 66 Circuit Notebook

*(1) Automated Water Tank Filler; (2) Modified Flexitimer; (3) RS232C To Current Loop Converter; (4) Simple Counter Uses A Crystal Clock As A Readout; (5) High-Side Current Monitor; (6) Electronic Kaleidoscope*

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*The Airzone 520/550 5-valve mantel receiver – by Rodney Champness*