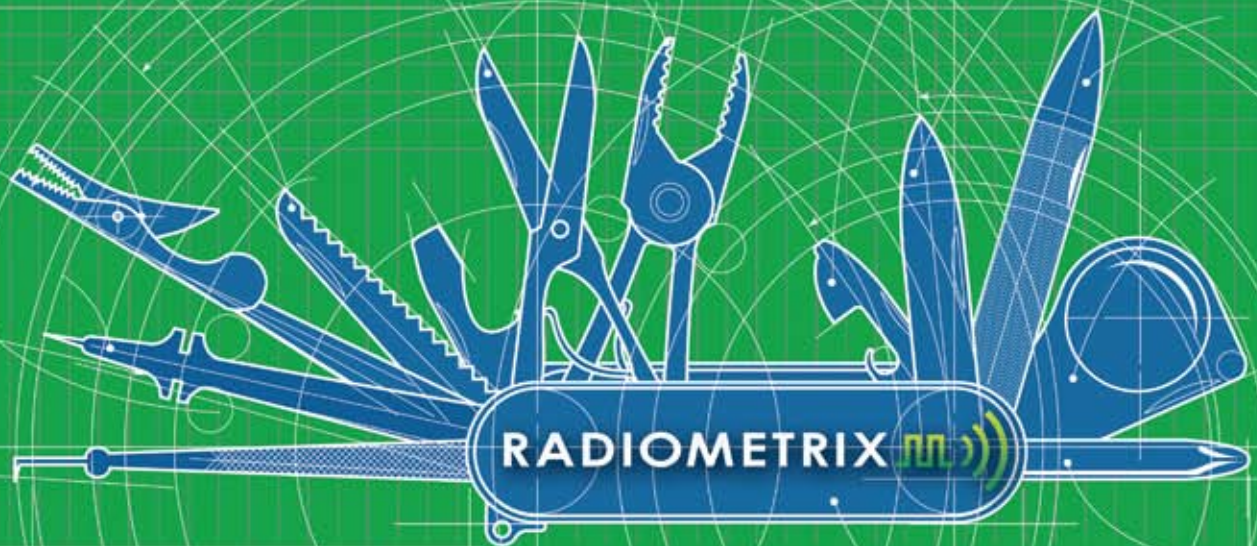




# RADIOMETRIX

DESIGN IN SUCCESS



CONTROL TOOLKIT

# Control Solutions

Whether you are replacing cables across a room or across a valley, Radiometrix have made a wire replacement solution for your control application.

## Installation of cabling for control is often difficult and proves expensive.

Many jobs are lost or put on hold because of the expense of installation or the need to get permissions to cross roads or land not owned by the end customer.



*"The units are great! We only asked for 1km range to control the pumps and the customer claims he is getting over 3 miles! Now he doesn't have to leave the farm house to control the pumps!"*

**Phil Coates – Heter Ltd.**  
**Bespoke engineering solutions.**



## Control ICs & Modules

Radiometrix offers a range of control ICs and modules for integration into your designs.

**CTR44** is a simple 16 address control protocol selected by a 4 bit input operating switches in momentary or latched modes.

**CTA88** uses an 8 bit address and allows more control options such as set/reset, toggle and various timeout modes.

**CXT** and **CXR** are control modules based on the LMT and LMR radios with built-in 16 bit addressing. Integrating a two line link providing one latched and one reset/momentary output, these modules are available in any of the LM series frequencies or transmitter power options.



## Evaluation and Application Boards

Available on loan or to purchase, Radiometrix has developed a range of evaluation boards incorporating our control protocols.

**CTR44 evaluation board.** Intended for initial tests or simple applications this board provides logic level inputs and 8A relay outputs.

**CTA88 evaluation and application boards** A range of boards are offered intended for integration into industrial control products. 2, 4 and 8 way bare boards and 2 or 4 way boards in tough aluminium extrusion cases.

Opto-isolated inputs and 8A relay outputs are standard.



*"The remote site was over a mile away from the nearest telephone line for the auto-dialler, the terrain was across fields and through several brick buildings. The link worked straight away! We were very pleased the RF solution was half the cost of our usual supplier and much simpler to install."*

**W Feldkamp of WF Engineering**  
**info@wfengineering.co.uk**  
**specialising in control systems for horticultural and agricultural**

## Tech Spec

- One way wireless link for simple remote control applications, with a minimum of effort and no customer software input
- 8 bit address select switches
- Eight 8A - 250V rated relays

"I just wired them in as instructed, switched it on and it worked! The customer was delighted. Radiometrix was the only company that was confident we could deliver a solution and had a range of drop in modules if I needed more options."

*Will Champness – Champness door controls,  
will@champnessdoorcontrols.co.uk  
installation of automatic doors and access control, specialising in bespoke solutions.*

## Secure Control

Very secure, low cost, one way remote control. Radiometrix supply ICs, modules, keyfobs and application boards using code hopping secure authentication algorithms.

- **Proven 100m range and 90,000 operation keyfob.**
- **UHF and VHF options for the Transmitter and Receiver modules mean that you can be sure that your solution has the range you need.**
- **Over-air learning means simple, reliable, installation.**

**Typical applications:** Remote locking / Burglar alarms / Door entry systems / Industrial remote control



**NEW** for 2011

## GTC01: Feature-rich GSM/GPRS development platform.

This self-contained GSM/GPRS platform is designed to support the Cinterion M2M Evolution range of GSM modems. Available in an easy to use plug in module form factor, it provides a versatile hardware interfacing development tool for the ceation of customised GSM/GPRS based devices.

The GTC01 platform includes a PIC-based, programmable, 8-bit Flash microcontroller watchdog, a SIM holder, RS232 compliant serial interconnections, and a set of easy to manipulate user interfaces that can be added directly to any application that requires GSM connectivity. Fully compatible with the Quad-band Cinterion MC75i, TC65i and TC63i GSM modules, the GTC01 allows their easier integration into a broad spectrum of systems designs.

The GTC01's feature set has support beyond SMS messaging, emailing and voice, offering web connectivity via its TCP/IP stack.

Thanks to the Java functionality built into the Cinterion TC65i unit, it also offers the capability to reprogramme over the air.

# Specialists

## in UHF & VHF Low Power Radio

### Industry-leading Reliability & Quality

Radiometrix has specialised in the design and manufacture of VHF & UHF FM low power radio modules for the rapid implementation of high integrity, wireless data links since 1985.

We offer custom development in addition to our diverse portfolio of products for licence-exempt and licensed applications.

### Allowing you to concentrate on the bits you do best.

Radiometrix have developed a range of control chips, modules and boards to help you solve control problems quickly and economically. From one off custom solutions based on existing products to all new bespoke control systems designed and manufactured for you.



## Need a custom solution?

Have an idea but not sure how to achieve it?  
Radiometrix design and manufacture Radio solutions and have helped many people get their ideas to market. **Just ask!**

See our Website for the latest details of our range and full technical specifications.

[www.radiometrix.com](http://www.radiometrix.com)

### WIRELESS SOLUTIONS FOR

- INDUSTRIAL AND COMMERCIAL TELEMETRY AND TELECOMMAND •
- INDUSTRIAL CONTROL • DATA LOGGING • AUTOMATIC METER READING •
- TRACKING/TAGGING • ENVIRONMENTAL CONTROL • HIGH-END SECURITY/ALARMS •

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 **RADIOMETRIX**  
WIRELESS DATA TRANSMISSION