



### \*\*\* QDG DIGIPEAT July 2016 \*\*\*

Digipeat is the Official Newsletter of the Queensland Digital Group  
Incorporating 'Amateur Eye', the Official Newsletter of the  
South East Queensland Amateur Television Group

## July QDG Meeting – Christmas in July

The Next QDG general meeting will be held on Friday July 15 at the Redcliffe club rooms.  
Doors will open at 7:00pm for a meeting start of 7:30pm.

The club is located at MacFarlane Park in Klingner Rd, Kippa Ring. (UBD Map 91 Ref G 1)

<https://www.google.com.au/maps/place/MacFarlane+Park,+Kippa-Ring+QLD+4021/@-27.2214151,153.0882619,17z/data=!4m2!3m1!1s0x6b93e5f47d867511:0xe926a70030364326>

### Meeting topic

#### Christmas in July

Please bring a plate of food to share.

Arduino and Raspberry Pi projects.

## NEWS FROM THE SEQATV GROUP

### New web site

Please check out the new Web site for the latest information and contact details.

<http://seqatv.org/>

The next meeting is Tuesday March 1.

### New Post Office box

Now **PO Box 643 Kallangur, Qld 4503, Australia**

## When everything else fails, amateur radio will still be there— and thriving

Ham is now a full-fat fabric that can provide Internet access. Why aren't you using it?

<http://arstechnica.com/gadgets/2016/06/when-everything-else-fails-amateur-radio-will-still-be-there-and-thriving/>

## Hamnet

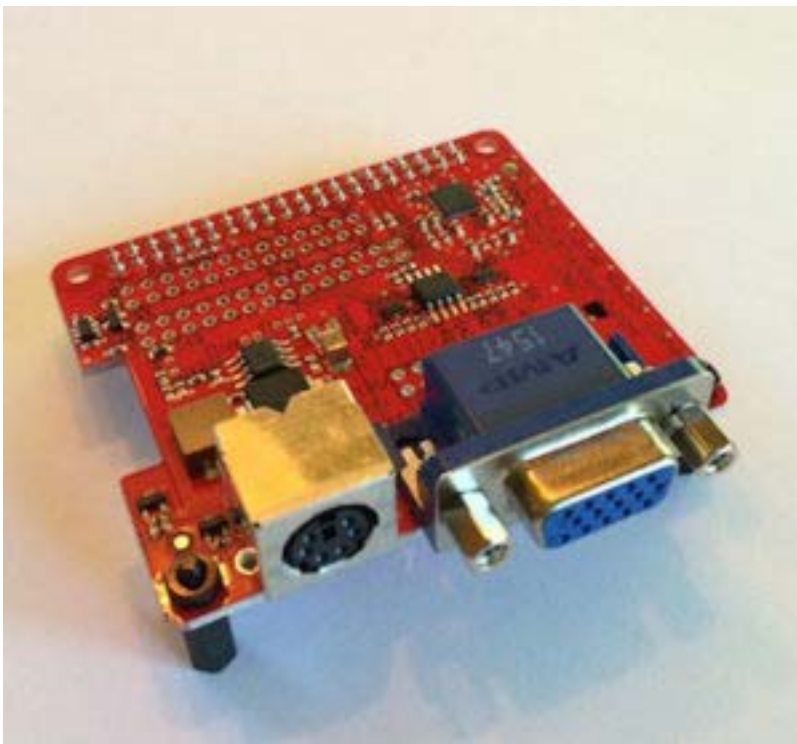
PDF showing the design of Hamnet.

<https://www.tapr.org/pdf/DCC2014-TheEuropeanHAMNET-DG8NGN.pdf>

## Universal Digital Radio Controller

Here at NW Digital Radio we are always looking at ways to enhance digital communications for the radio amateur. As we have been marching forward with the development of the UDRX-440 there have been a few products that have come to market both from us and from other manufacturers.

<http://nwdigitalradio.com/introducing-the-udrc/>



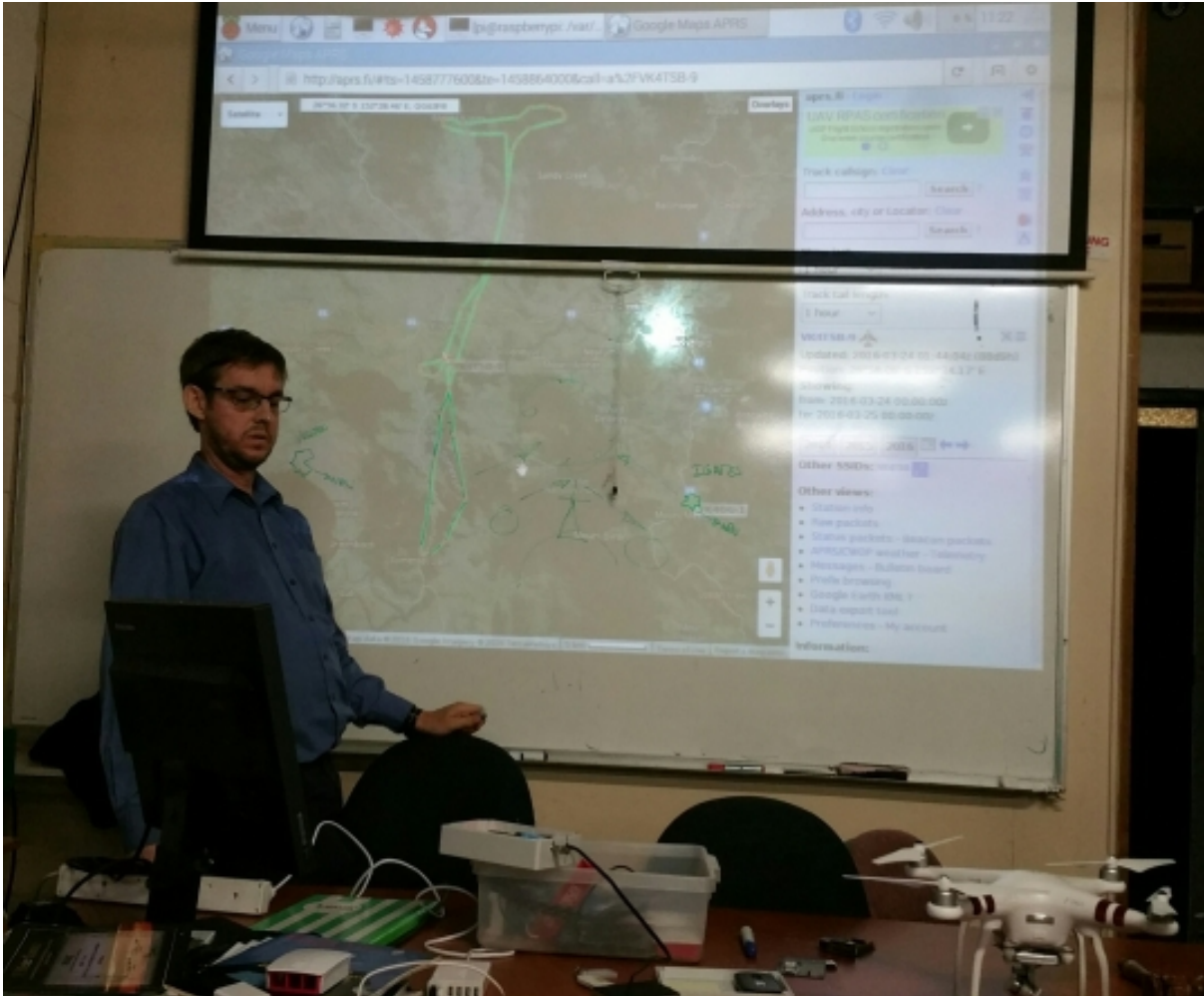
UDRC™ and Direwolf Packet Modem

<https://nw-digital-radio.groups.io/g/udrc/wiki/UDRC%E2%84%A2-and-Direwolf-Packet-Modem>

## Raspberry Pi or Arduino? One Simple Rule to Choose the Right Board

Super simple guide to help you get started.

<http://makezine.com/2015/12/04/admittedly-simplistic-guide-raspberry-pi-vs-arduino/>



Andrew VK4TEC talk including APRS at the Redcliffe Radio club meeting



VK4TEC talk Raspberry Pi and Arduino Boards at the QDG meeting



```
Starting vsftpd FTP server...
Starting /etc/rc.local Compatibility...
[ OK ] Reached target Network is Online.
Starting LSB: Apache2 web server...
Starting LSB: Start NTP daemon...
[ OK ] Started System Logging Service.
[ OK ] Started vsftpd FTP server.
[ OK ] Started /etc/rc.local Compatibility.
[ OK ] Started Login Service.
Starting Wait for Plymouth Boot Screen to Quit...
Starting Terminate Plymouth Boot Screen...
[ OK ] Started Wait for Plymouth Boot Screen to Quit.
Starting Getty on tty1...
[ OK ] Started Getty on tty1.
Starting Serial Getty on ttyS0...
[ OK ] Started Serial Getty on ttyS0.
[ OK ] Reached target Login Prompts.
[ OK ] Started Terminate Plymouth Boot Screen.
[ OK ] Started LSB: Start NTP daemon.
[ OK ] Started LSB: Apache2 web server.
[ OK ] Started Configure Bluetooth Modems connected by UART.
[ OK ] Reached target Multi-User System.
Starting Update UTMP about System Runlevel Changes...
Starting Load/Save RF Kill Switch Status of rfkill1...
Starting Bluetooth service...
[ OK ] Started Load/Save RF Kill Switch Status of rfkill1.
[ OK ] Started Update UTMP about System Runlevel Changes.
[ OK ] Started Bluetooth service.
[ OK ] Reached target Bluetooth.

Raspbian GNU/Linux 8 raspberrypi tty1

raspberrypi login: pi (automatic login)
Last login: Thu May 26 06:20:41 UTC 2016 on tty1
Linux raspberrypi 4.4.9-v7+ #884 SMP Fri May 6 17:28:59 BST 2016 armv7l

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*-copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
pi@raspberrypi:~$
```

Raspberry Pi boot screen



VK4TEC ADSB receiver planned for the VK4RRC site

## Panorama of Redcliffe repeater site VK4RRC as per ACMA database

Lot 1 Williams Rd WAMURAN QLD 4512

<http://www.heywhatsthat.com/?view=HP5L2BTG>



### HamFest July 16, 9am

The Caboolture Scouts Ground

169 Smiths Road

Caboolture QLD 4510

<http://www.vk4qd.net/>

### w2aew

Repair of various radios, using oscilloscopes

<https://www.youtube.com/user/w2aew>

### Powering Raspberry Pi Projects with PHP

<https://www.sitepoint.com/powering-raspberry-pi-projects-with-php/>

### VK5REX D-Star Repeater

The VK5REX D-Star repeater is located just outside the city of Port Lincoln on the Southern tip of Eyre Peninsula in South Australia.

<http://vk5rex.squarespace.com/about-vk5rex/>

# CQ-DATV



dotMOBI

Free monthly ATV magazine.

<http://www.cq-datv.mobi/ebooks.php>

## D-STAR hotspot or repeater? Both!

Reliable, low-price solution for building D-STAR hotspots, repeaters and stand-alone repeaters

Using the DVRPTR\_V1 board and a computer (PC or Raspberry Pi) you can create a D-STAR hotspot which will give D-STAR users "over the air" access to the network from the comfort of their armchair or around their QTH with a D-STAR compatible handheld.

<http://www.dvrptr.net/>



## DStar101

There are many other ways of effecting the same solutions as presented here, using other software and hardware. If a solution is not listed, it's because it hasn't been tried or documented yet.

<http://www.dstar101.com/>



We're a community built to serve developers. Get answers, share knowledge, and find the job you love.

Join millions of developers just like you.

There is some Raspberry Pi information on this site.

<http://stackoverflow.com/>

## Raspberry Pi projects

You can spend many hours on this site.

<http://makezine.com/tag/raspberry-pi-2/>

## PG1N

136 kHz projects

There are a lot of projects on this site.

<http://www.pg1n.nl/articles.php?lng=en&pg=86>

## ACMA Radcom Database

Register of Radiocommunications Licences

[http://web.acma.gov.au/pls/radcom/register\\_search.main\\_page](http://web.acma.gov.au/pls/radcom/register_search.main_page)

## 2m SSB

Sunshine Coast 2m SSB net

19:30 Sundays on 144.300 MHz

Don't just use your equipment on field days; come up on air every Sunday.

## SEQATV Club Net

Wednesday nights

8:00 PM EST on VK4RRC 146.925MHz repeater

## 2016 dates

July 16, Caboolture Hamfest

August 19 QDG general meeting; Alan Simpson memorial home brew competition [www.qdg.org.au](http://www.qdg.org.au)

September 23-25 VK4 Central Highlands Amateur Radio Club AGM weekend

Lake Maraboon Holiday Village, near Emerald. <http://www.tarc.org.au/>

September 30 to October 3 VK4 Cardwell Gathering Long Weekend, Beachcomber Motel

<http://www.tarc.org.au/>

October 14th, 15th & 16th 2016 JOTA-JOTI <http://jotajoti.info/>

## Contests 2016

### VHF-UHF Field Days

August 13-14 Remembrance Day (RD) Contest

<http://www.wia.org.au/members/contests/rdcontest/>

Aug 27-28 36th ALARA Contest <http://www.alara.org.au/contests/>

## QDG information

### QDG meeting dates 2016

January 15

February 19

March 18

April 15

May 20

June 17

July 15

August 19

September 16

October 21

November 18

December 16

Unless otherwise noted, QDG group general meetings are held on the third Friday of the month at the Redcliffe Club rooms

The club is located at MacFarlane Park in Klingner Rd, Kippa Ring.(UBD Map 91 Ref G 1)

<https://www.google.com.au/maps/place/MacFarlane+Park,+Kippa-Ring+QLD+4021/@-27.2214151,153.0882619,17z/data=!4m2!3m1!1s0x6b93e5f47d867511:0xe926a70030364326>

### QDG Membership

QDG Membership is presently free.

As of June 2015 the QDG has 65 members.

Information and a list of members are up on the web site <http://www.qdg.org.au/qdgmemb.htm>

Membership forms are on the web site.

### QDG Membership services

Members receive additional 'Digipeat Extra' emails and invitations to other club activities not included in the Digipeat newsletter.

### Sound Card to Radio Interface

This computer to radio interface can be used for any audio mode including voice.

The SCI provides isolation to remove earth loops as well as providing switching and level adjustment.

Contact Richard VK4ZA on 07 3376 5231, email [richatkn@tpg.com.au](mailto:richatkn@tpg.com.au) or via the QDG web site.

Please contact Richard if you are interested in a dual interface PC board or a mark 2 version with modified connections.

### Alan Simpson memorial home brew competition

August QDG general meeting [www.qdg.org.au](http://www.qdg.org.au)



## QDG club contacts

Club contact: Alan Wills VK4NA  
Digipeat Editor: Alan Wills VK4NA  
Web site: Alan Wills VK4NA  
Web site hosting: Tim O'Donohoe  
Supper: Alan Wills VK4NA  
JOTA: John VK4CJO  
Phone: Alan Wills VK4NA 61 07 3491 8032  
Mobile: 0401 716 778  
Twitter @VK4NA

Email: [qdg@qdg.org.au](mailto:qdg@qdg.org.au)

Web site: <http://www.qdg.org.au>

Digipeat <http://www.qdg.org.au/qdgdigi.htm>

QDG  
37 Evergreen Parade  
Griffin QLD 4503  
Australia

## South East Queensland ATV group Information

### SEQATV meeting dates 2016

Please check the SEQATV [Web site](#)

Unless otherwise noted, SEQATV group general meetings are held on the first Tuesday on the month at the Redcliffe Club rooms

The club is located at MacFarlane Park in Klingner Rd, Kippa Ring.(UBD Map 91 Ref G 1)

<https://www.google.com.au/maps/place/MacFarlane+Park,+Kippa-Ring+QLD+4021/@-27.2214151,153.0882619,17z/data=!4m2!3m1!1s0x6b93e5f47d867511:0xe926a70030364326>

### SEQATV group Membership

SEQATV group Membership is set at the AGM, please contact the secretary for the current fee. The membership fee remains at \$20.00 for 2016

### SEQATV group Membership services

Members receive additional 'Amateur Eye Extra' emails and invitations to other club activities not included in the Digipeat or Amateur Eye newsletters.

### SEQATV Club Net

Wednesday nights  
8:00 PM EST on VK4RRC 146.925MHz repeater

### The SEQATV group Officers

#### Elected officers:-

President: Arnold Youngberg VK4SU  
Secretary: Bruce Jones VK4EHT  
Treasurer: Andy Beales VK4KCS

**Coopted Officers:-**

Callback Officer: Peter Jones VK4YAC

Vice President: Alan Wills VK4NA

Assistant Secretary Bill VK4ZWJ

Additional coopted officers will be added as required.

**SEQATV group Contact Information**

South East Queensland Amateur Television Group

**PO Box 643 Kallangur, Qld 4503, Australia**

Amateur Eye (club mag) Phone: Alan Wills VK4NA 61 07 3491 8032

Email: [secretary@seqatv.org](mailto:secretary@seqatv.org)

Web site: <http://www.seqatv.org/>

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Enjoy your hobby!

73 Alan VK4YAR / VK4NA

**\*\*\* Queensland Digital Group \*\*\***

**\*\*\* SEQATV group \*\*\***

**\*\* Supporting Radio Communications in VK4 \*\***