

Special prices have been arranged for club members of £30 per standard 13cm or 23cm transmitter modules including bulk delivery to club via David G7URP. The club needs to submit order(s) with minimum values of £150 to get these prices which should not be too difficult. Other items may also be ordered at the same time - prices of other items as per www.13cm.co.uk/shop website.

I have had good experiences buying from 13cm.co.uk and they are the main UK dealer for Comtech modules and the UK designed controller board along with ATV amplifiers and some low cost ATV antenna & useful accessories.

NARC will send a bulk order to 13cm.co.uk on behalf of individual club members - personal cheques should be payable to DTECH. Please note that neither David G7URP or NARC are agents for or making any profit from 13cm.co.uk/DTECH but merely collating orders for the benefit of club members.

Selection of items - more products and upto date pricing from 13cm.co.uk.

Receivers and Transmitters Frequency is set by 8 x DIP switch on PCB

23cm (1300MHz) Receiver module *Special club price*	£30
23cm (1300MHz) 50mW Transmitter module *Special club price*	£30
13cm (2400MHz) Receiver module *Special club price*	£30
13cm (2400MHz) 50mW Transmitter module *Special club price*	£30

LCD Controller module easy control and display of frequency of **both** ATV Transmitter and Receiver instead of using DIP switches. Recommended!
Works with 13cm or 23cm modules

LCD controller module - Non-backlit version	£35
LCD controller module - LED Backlit version	£40

23cm Linear PA amplifiers

1 Watt PA with SMA fly lead to connect direct to module	£45
18 Watt PA with SMA fly lead to connect direct to module	£130

Antenna can be found under Antenna button and also Accessories button

Low cost cameras, monitors, cables etc also available at www.13cm.co.uk/shop

To order through club

List items you wish to order on a piece of paper and preferably submit with a cheque to DTECH (or exact cash if a cheque not available). There are no deadlines as such and I will submit orders once we have reached £150 threshold. Or of course you can order direct on their website with credit card although standard module pricing will apply. David G7URP

Getting Started with Amateur Television 2



General Information

British Amateur Television Club	www.batc.org.uk
BATC Live stream and event site	www.batc.tv
GB3TN and GB3LO repeater information	www.gb3nb.org.uk

Amateur pages on modules & Bi-Quad (Bow tie) antenna

www.m0dts.co.uk/gb3km/how-to.htm (note dimensions are for 2.4GHz)

Many, many others linked from BATC, google etc

UK Equipment suppliers

Comtech ATV modules, antenna, linears (see club offers on back of leaflet)	13cm company www.13cm.co.uk/shop
Linear amplifiers, metalwork etc	GH Engineering www.ghengineering.co.uk
Antenna - Alford slots, Horns etc	Stuart Marshall G6nhg email g6nhg@qsl.net
Cable specialists - good info	Westlake electronics www.whwestlake.co.uk
RF cable specialists	Diode Communications www.diodecomms.co.uk
Camcorders, monitors etc	Radio rallies, ebay etc!!
General components	Rapid www.rapidonline.com JPR www.jpreece.co.uk

Hope to see you on TV!

73 David G7URP

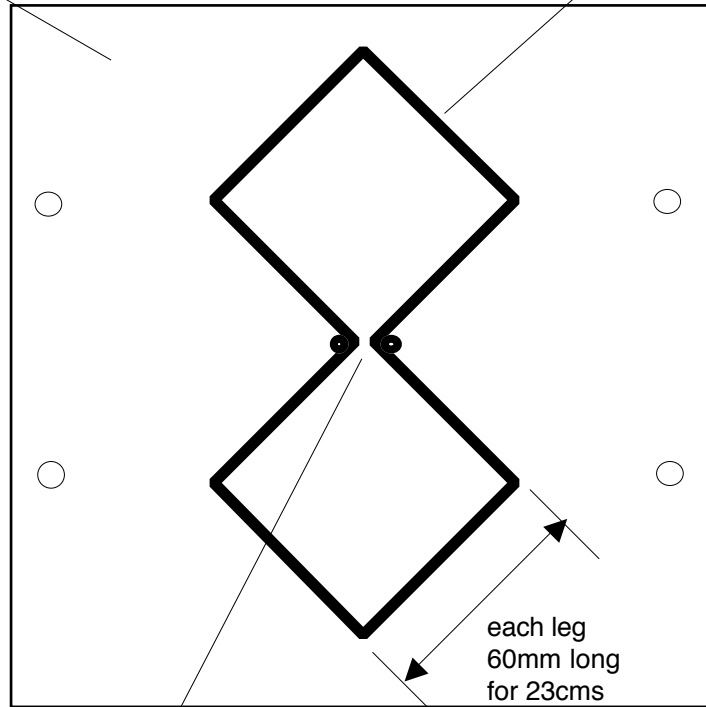
Linked to talk by David G7URP November 2009 E&OE 2nd edition 1.12.09 ©G7URP/NARC

Getting Started with ATV - homemade antenna

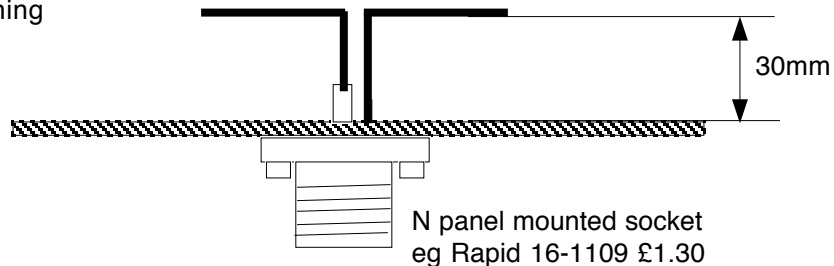
David G7URP's Bowtie antenna based on friend and web ideas
 Costs under £4 to make from new but much less or free from the spares box!

Single or double sided PCB material used as reflector
 eg Rapid 34-0866 £2

Stiff wire bent to shape and soldered to socket wires



Keep this point close but not touching



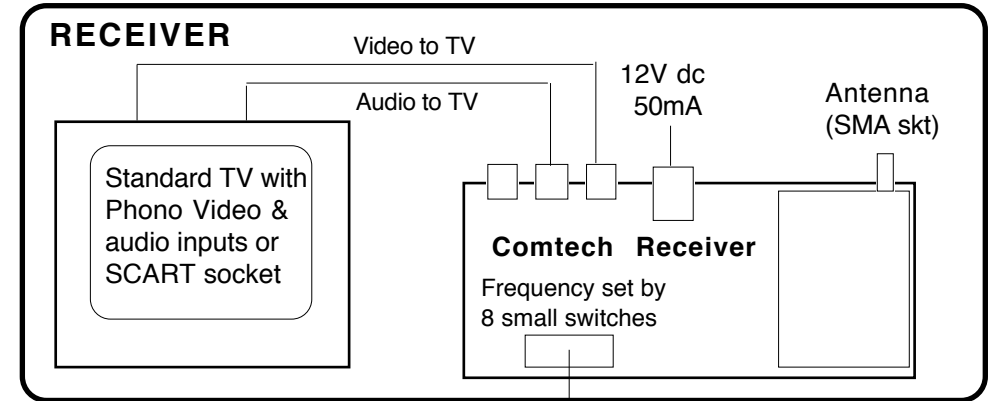
Antenna could be waterproofed in a graphite free (non black) sandwich box etc

WHAT DO YOU NEED: ATV BASED ON COMTECH MODULES:

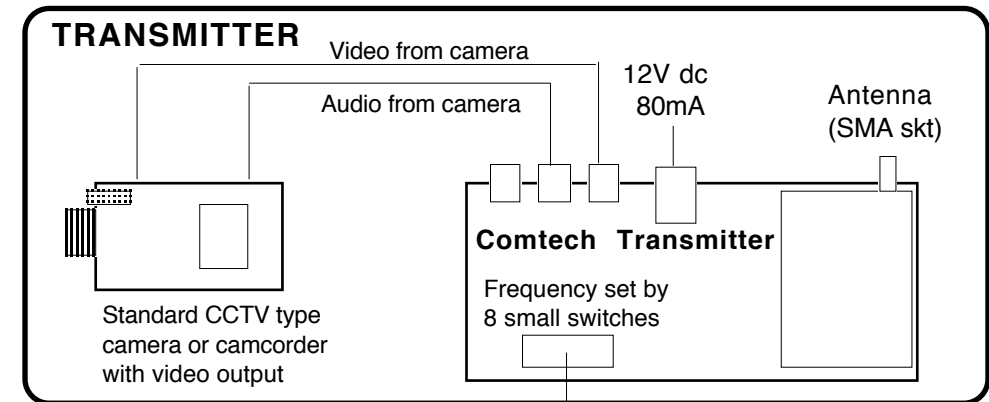
(see back page for special club offer prices on modules)

Modules below same for 13cm (2400MHz) and 23cm (1300MHz)

Current repeaters near Fakenham (TN) and Lowestoft are all on 23cm (1300MHz).



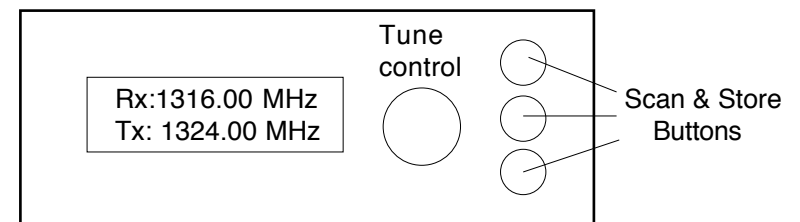
To optional controller



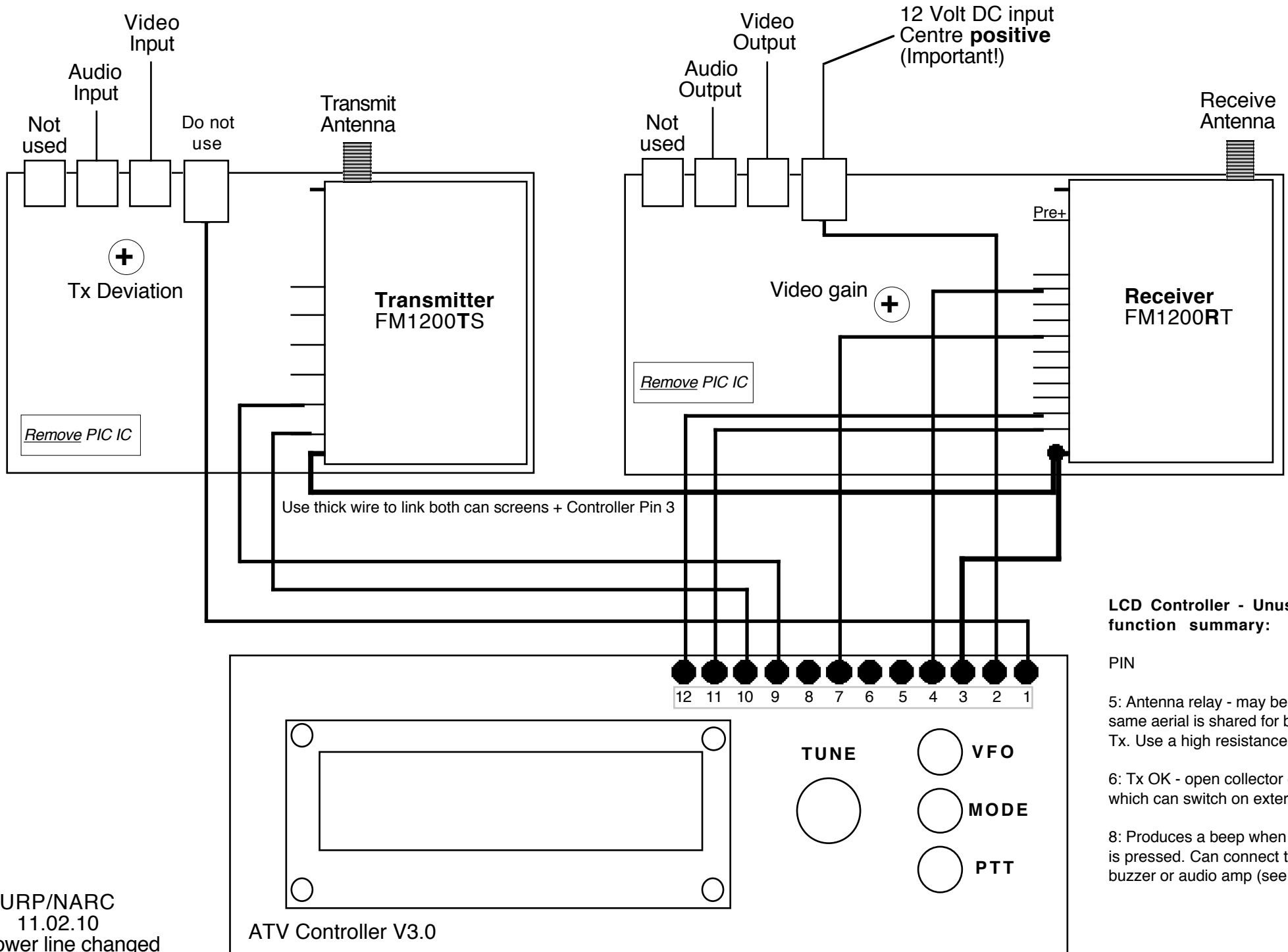
To optional controller

OPTIONAL - LCD CONTROLLER, MEMORY & DISPLAY

Displays, stores & controls frequency of transmitter AND receiver - much easier than using DIP switches and can scan, store in memory, S-Meter etc. Connects to receiver and/or transmitter modules using just 5 wires



ATV 3: Easy guide to interconnecting Comtech Transmitter, Receiver and LCD Controller



LCD Controller - Unused pin function summary:

PIN

5: Antenna relay - may be used if same aerial is shared for both Rx & Tx. Use a high resistance coil

6: Tx OK - open collector output which can switch on external PA

8: Produces a beep when a button is pressed. Can connect to a piezo buzzer or audio amp (see inst)

More Shopping suggestions.....

PCB Antenna

Single sided copper clad fibreglass PCB 233 x220 mm

N type PCB socket

F type socket

Connectors

DC power plug - 2.1mm inside pin diameter

Phono plugs

SMA plugs

F Plugs

F panel socket

Suggested suppliers

Rapid 34-0815 £3.10

Rapid 16-1109 £1.30, also rallies, salvage

Rapid, Maplin, Screwfix, Yeomans etc

Rapid, Maplin, G7URP on 2m lead 50p

Rapid, Maplin, CPC, etc etc

Maplin MM55/MM56 £1.99

Rapid 16-0605 22p!, Screwfix (Maplin £1.99!!!)

Rapid 16-0610 19p!

RF Cables

Low cost and ok for relatively short runs at 1.3/2,4GHz - even though 75Ω very low loss and cost effective: (Note do NOT use std TV aerial downlead!)

CT100/CT125 Air spaced coax as used for satellite dishes

Rapid 02-0250 £46.41/100m and Maplin, Screwfix etc,

Best Amateur affordable cable for 1.3GHz upwards, like RG213 to look at but over £1 / m

Westflex 103 (note need W103 N plugs)

GMS Electronics, Westlake electronics, Diode communicationsW&S

Audio/Video cables

Phono to Phono plug leads - ok to use audio if leads are short

Rapid 16-0372 3m long £0.75, Maplin etc, make your own!

Finishing off.....

Case to suit

Rapid, Maplin, JPR, homebrew!

Labelling or transfers for case

Knob for frequency selection (6.5mm diameter spindle)

Rapid, Maplin, JPR,

Optional

Relay to switch antenna (high sens coil)

See Getting started with ATV 2 for contact details