

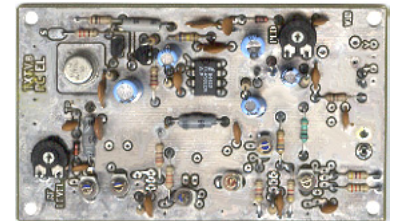


ELECTRONICS Analog Cable tuners must also be in new HD TV's per FCC Rule 15.118(b)

420-450 ham band spans cable channels 57-61, 439.25 MHz = cable ch 60 and channels are spaced every 6 MHz. Analog ATV still has the advantage of real time communication and low cost, while Digital ATV has a few second time delay and is still very expensive for transmitting gear - see the 2010-12 ARRL Handbook page 32.6. So analog ATV will be around for years to come. Don't trash your old analog only TV sets, use them for getting on ATV.

TXTVb 70cm ATV Transmitter and Test Generator Board.....\$30

Board comes built as shown and with kit of 12 parts for you to put in and easily tune up with just a DC Voltmeter - final assembly and tune up instructions included. Outputs 1 to 10 mW RF; great for club ATV demo's, public service events and transmitting up to a few hundred feet, peaking up downconverters and antennas. Requires 8 to 14 Vdc @ 40 mA. For portable, it can run on a 9V alkaline battery for over 8 hours. Uses International crystal #473370 output frequency divided by 4 - call 800) 725-1426 to order crystal.

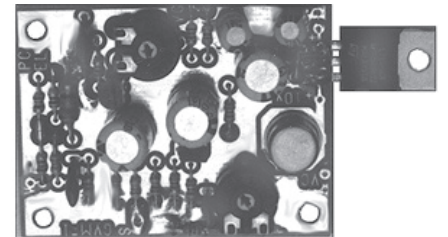


Board 4.0 x 2.25"

Great club ATV project. Quantity discount - 2 for \$49, 5 for \$99.

GVM-1 Gunnplexer Modulator Board for 10 GHz FM ATV.....\$29

Video modulate the varicap in a Gunnplexer for 10-100mW wideband FM ATV. Gunnplexers can be obtained from SHF Microwave or Advanced Receiver Research. See our Application Notes web page. GVM-1 can also be used as a sound subcarrier mixer with video, video pre-emphasis amp, distribution amp, etc. Club project special, 5 for \$100, 10 for \$150.



See our Specials and Surplus web page From time to time there will be items that can save you a few dollars. Check back often. There are production samples, working prototypes, parts, crystals, over stocked items, etc.

MIGHT WE SUGGEST AMATEUR TELEVISION QUARTERLY MAGAZINE for what's happening in ATV, construction articles, etc. Subscription \$22/yr. Write to: **ATVQ, POB 1594, Crestline CA 92325. Tel:1-909-338-6887** email: WA6SVT@atvquarterly.com

ORDERING INFORMATION & SALES POLICIES

P. C. Electronics manufactures and supplies amateur television equipment for licensed Radio Amateurs and assumes the purchaser has a level of technical knowledge and resourcefulness to safely and successfully put together a working ATV station. Prices, methods of sale, and information supplied are also geared for direct mail or telephone sales to the licensed Radio Amateur. We have no store or showroom - our address is for mail order only due to city zoning ordinances. All USA or Canada orders must be purchased by a licensed Radio Amateur for lawful Amateur purposes only (see 47 CFR part 97, FCC Rules and Regulations), and may be refused by us if we believe the equipment will be used unlawfully, or the purchaser does not check out in the current FCC or QRZ web site. New licensees may mail or email a copy of their test certification if not yet listed. Equipment may be purchased by anyone for use outside of the USA or Canada only when a signed End User form is received by us - see How To Order on our web site."

RETURN POLICY. All orders are final once shipped by us as far as returns, quantity or package discounts. Returns of unused equipment will be refunded 85% of the product price if the purchaser calls us for authorization within 15 days of our shipping date. Unused in this case means, that in our opinion is completely resaleable as new after our testing and was never connected up or handled in any way that caused electrical or physical damage.

SERVICE POLICY. In case of difficulty, check all cables and connections, power supply, VSWR, test points, etc., and reread the info sheet or manual before calling us for technical advice or return authorization for repair. Over 80% of the time the problem is with the customers cables, unfamiliarity with UHF techniques or lack of test equipment. Call so we can give you some trouble shooting hints to save you time and money. Our policy on our manufactured equipment is the customer ships the item to us with the Return Authorization Form (download from our web site) filled out, at their cost. If we deem that the problem is due to our workmanship & materials within a reasonable time period (different parts have different expected lifetimes - we feel this is far fairer & more realistic than the usual 90 days), it will be fixed & returned with no repair charge. Normal turn around time is 2 days. If we believe the problem is due to the customers misuse, abnormal wear, natural causes, physical damage, or no problem found, then the board modules can be repaired & tested for \$40 plus parts cost & packaged units (TC70, TX70, RTX, ATVR, etc.) repaired for \$80 plus parts cost and shipping. No other warranty is expressed or implied than that noted here. Any equipment not manufactured by us is limited to the warranty made by the manufacturer, your recourse is with the manufacturer & their repair & warranty policy. Return other manufacturers equipment to them per their policy for service, not to us - we are not authorized for their warranty evaluations nor do we stock their replacement parts. Anything left unpaid more than 90 days will become our property.

METHODS OF PAYMENT WITH ORDER:

VISA or MASTERCARD, purchasers card only, no third party using someone else's card with permission accepted. \$25 minimum charge card order (keeps bank cost and your prices down). We do not accept American Express or Discovery Cards, bank transfers, letters of credit, or trades.

CHECK. U.S. Postal Money Orders, obtained at any U.S. Post Office, are treated same as cash and do not delay shipment. ALL other checks, including cashiers checks or bank money orders will wait 3 weeks to clear the bank before shipment. All checks must be in U.S. dollars drawn on a U.S. bank.



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Tel: (626) 447-4565 m-th 8am-5:30pm pst (UTC - 8) Tom (W6ORG) & Mary Ann (WB6YSS)

Web site: www.hamtv.com

Email: ATVinfo @ hamtv.com



Ordering Information and Sales Policies Continued

METHOD OF SHIPMENT. Unless you specify, we will ship via US Priority mail insured at our option, and cost added to your total order. Products drop shipped from the manufacturer are shipping included. UPS requires a street address or known UPS location for delivery (no PO box). Allow up to 6 working days for shipping across country. Other shippers or air can be used at customers request at cost plus a special added handling fee depending on complexity.

Canada, APO's, and outside contiguous USA states and possessions are shipped via Air Parcel Post at cost with a \$15 minimum charge or UPS, if specified, at cost. Foreign shipments are made via Air Parcel Post or UPS at cost - note if Air Parcel Post specified, you may have to wait up to 6 months if lost, stolen or damaged to be reimbursed by insurance. Call, email or write for amount. We cannot assure foreign delivery, and suggest foreign customers have us ship to their freight forwarder or agent in the USA. We cannot act as an export agent for you.

PURCHASING AGENTS: Payment must accompany the order. A paid invoice is sent in one of the equipment boxes for your records and we will list your order number if requested for your accounting but in no way should be implied that we accept any terms and conditions connected with your order number. We do not accept purchase orders, or order forms with any terms, conditions, etc., other than those listed here. We do no billing. We are not into paperwork, red tape or bill collecting and won't pass it's cost on to other hams in the price of our products. Include a signed note with call letters from the licensed Radio Amateur: "I take full responsibility for the legal use and operation of the amateur radio equipment purchased by (business name) from P. C. Electronics." - Form available on our How To Order web site.

TELEPHONE ORDERS: (626) 447-4565 call 8 a.m. to 5:30 p.m. Pacific time Monday through Thursday. This is the fastest way to get your order on it's way usually by the next day. Best time to call is before noon Pacific time with your credit card ready and a list of the model numbers and frequencies. We usually are able to get in-stock items out that day or within 24 hours. E-mail address is ATVinfo @ hamtv.com

MAIL ORDERS: fill out the form below. Don't forget to list desired frequency on transmitters. Californians only are to pay 7.75% sales tax, LA County 8.75%. We will add shipping at cost and you can call or email us for the amount if sending a check. Our prices may change later from those in this catalogue - you can download the latest from our Products & Prices web page at <http://www.hamtv.com>. Orders will be sent back with the check or card info if there is a price change or total is incorrect. Double check your card numbers & expiration date. Name for Visa or Mastercard must be same as printed on the card, & also must be the same as the licensed radio amateur.

CRYSTALS: Transmit 426.25 and 421.25 MHz are \$25 each while they last. See www.hamtv.com/xtals.html for other crystals and info. Other frequencies you can order direct from International Crystal Mfg. at (800) 725-1426. Specify crystal series resonant frequency and catalog #473370.

Order Form - Please Print

Postal mail this completed form to our address at top of the page. Telephone orders are accepted at 1-626-447-4565 Monday through Thursday 8am to 5:30 PM pacific time. If there is any question, please call or email ATVinfo @ hamtv.com before sending the form. We will email you if any information is missing or needs clarification.

Quantity	Model #	Description	Frequency(s)	Price ea.	Total

Equipment Total _____

Calif. ship to addressee's only (LA 8.75%, all other counties 7.75%) add sales tax _____

Shipping & Handling via US Priority mail insured unless you specify otherwise _____

Charge card minimum \$25. Checks, other than USPO MO, wait 3 weeks to clear . **TOTAL** _____

Name(same exactly as appears on credit card) _____ Ham Call _____

Street (same as card billing) _____ City _____ State & Zip _____

Daytime Phone (____) _____ Email _____ Country _____

Visa or MC Number _____ Expiration mo/yr ____/____ Varification code _____

Ship to (if different than above and indicate if business or residence) _____

Street _____ City _____ State & Zip _____ Country _____

Address above same as on ham license? _____

Where do I start?

The 70cm 420-450 MHz band; It's the first Amateur band that will support a standard 6 MHz AM ATV channel and you only need a code free Technician class license or higher to transmit. Also since the lower the frequency, the farther the distance, given the same power and antenna gain, this is where 98% of ATV operates. The 902-928 MHz band goes half the distance. The 70cm band is also lowest cost and easiest to get on. ATV frequencies work best with unobstructed line of sight paths between the transmitting and receiving antennas. So the antenna and height is the most important part of the ATV station.

To see your first picture it may be as easy as turning your cable ready TV to cable channel 57 thru 60 and connecting it to a good outside 70cm antenna. Cable channel 57 is 421.25 MHz, the most common ATV repeater output, and 60 is 439.25 MHz, the highest frequency used in the band. Contact a local ATVer on two meters (144.34 typ) and have them send a picture your way. If you dont know of one, call or email us and we will try to put you in contact.



ATV is live action color and sound just like analog cable TV - show the family to fellow hams!

After you see your first picture, you will want to improve your reception for DX or get less snow with one of our downconverters and high gain beams - see page 3 For transmitting see the 5W unit on page 2. We also have boards and modules for those who want to package their own systems or use them for R/C, rockets or balloon ATV.

ATV Info Sources:

See all the Fun ATV applications and info on our web site - www.hamtv.com

I suggest reading the ATV section of the 1995 -2010 ARRL Radio Amateurs Handbook (W6ORG wrote it). It will give you all the basic information and background for this visual mode of ham radio as well as all other facets of the hobby.

Contact local ATVers to find out the local antenna polarity, nets and frequencies used in your area. 144.34 or 146.43 simplex are the most common ATV coordination and talk back frequencies. If you cannot find a local ATVer contact us and we will look some up from our customer data base for you to try.

The ARRL Repeater Directory lists all the coordinated ATV repeaters in the country - see if one is in your area.

Email us if you have any ATV questions - [ATVinfo @ hamtv.com](mailto:ATVinfo@hamtv.com)

For non-amateur video links, we suggest the FCC Type Accepted transmitters from Microtek - (888) 366-4276 - they have both license free FCC Part 15 (1000 ft) and commercial Part 90 2.5 GHz systems (up to 20 miles) or ATV Research, call 1-800-392-3922, for their catalogue or web site www.atvresearch.com. Amateur frequencies cannot be used to further a business, profit or non-profit, or local government purpose per 47 CFR 97.113 and 97.111.

Special -70cm ATV Test Generator Board, **TXTVb.\$30**

Partially built with kit of 12 parts for you to put in and easily tune up. Output 1 to 10 mW; great for club ATV demo's, public service events up to a few hundred feet, tuning up downconverters and antennas. See page 8.

page 10

From: P. C. Electronics
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USA



**Get the ATV Bug and
SEE who you are
talking to!
It's Easy and Fun!**

May 2012 ATV Catalog
mailed free to licensed
Radio Amateurs (Hams).

First Class Mail

TO: