



Ontario Amateur Radio Service **Tech Topics**



Updated: 19th March 2025

Mini/pocket SDR rx/tx from Germany



Click the picture for video assembly

The (tr)uSDX is a 5-Band / Multimode QRP Transceiver in Pocket Format (90x60x30mm – 140g). It features a highly efficient Class E PA and Supports CW/LSB/USB and AM/FM. It covers by default 80/60/40/30/20m. It is supplied with OLED Display, onboard Mic, (tiny) onboard speaker and for improvised QSO onboard PTT Key can be used as emergency CW Key. Further on, the (tr)uSDX has a (Micro)USB CAT and Programming Interface, and while it produces typically 5W @ 13,8V Power Supply, it can create 0,5W Output from 5V USB Supply alone.



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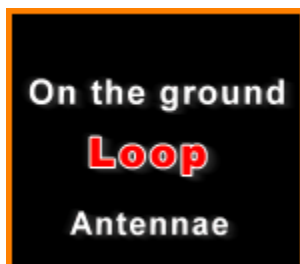
ON THE GROUND LOOP ANTENNA:

By Alan VE3PRU:

See attached for the loop on the ground antenna.

I am using the FT37-75 Ferrite Toroidal Core from Amidon (Sayal #232711) good for 0.5 to 20MHz. I also use 30 gauge magnet wire and put everything inside a small sealed plastic Hammond box. I am very pleased with the results.

I have connected the antenna with RG6 coax to the receive port on the IC-7610/IC756ProII and added a relay box to disconnect the receive antenna and also short out the received input to the radio's to further protect the radio's receive antenna port (can never be too careful). My relay box is simple and it is control by the radio send port so everything is absolutely automatic and simple.



Click above to read all about it by Matt KK5JY



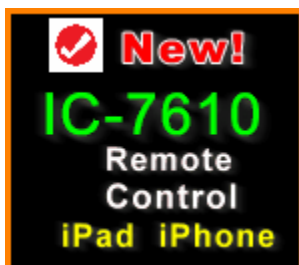
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New remote control for IC-7610:

I am currently using this Apple App from Marcus DY2MR with my IC-7610 allowing connection and control from anywhere in the world, using my Apple iPhone 16.

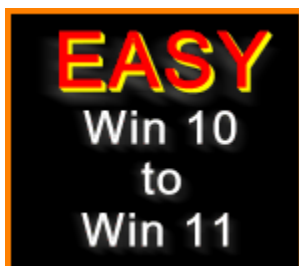
Barry VE3ISX



Click above for more information.

Update your Win 10 to Win 11:

I have currently updated all my Win 10 machines using this FREE application. Easy enough for the amateur. Watch the video. Do exactly what the author says.



Click above for more information.



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Control for most any transceiver:

- **Icom 7100 (HF/vhf/uhf) 7200 HF, 7300 HF, 7610 HF, 705 HF only**
- **Elecraft KX2, KX3, KX3/s**
- **Yaesu FT-991/a (HF/vhf/uhf)**

I currently use this product for both my ICOM IC-7300 and IC-7610. Again, this product displays on any mobile device, laptop or desktop. Note: There is a yearly charge for the Cloud server.

- **Plug and Play network setup. (No special firewall configuration.)**
- **Works with CGN.)**
- **No dedicated PC required at station.**
- **Low cost, widely available standard hardware
(Raspberry Pi..purchased by from Amazon.ca).**



Click above for more information.



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Do you need an antenna tuner:

A great find from Rick VE3BK of the Hamilton ARC....worth the read.

Tech talk

Do you need an antenna tuner?

[Click here](#)

Economic HF Remote using Skype:

This is how I have used SKYPE to provide HF remote control to hams without HF gear or on holiday abroad. It also provides GROUP/Phone patch to land line telephones.

Remote HF Basics

**Connect your mobile device
(iPhone/Android/Laptop)**

Via the Internet

All the basics you need

Presented by Barry VE3ISX 



Click above for more information.



Ontario Amateur Radio Service

Tech Topics



Easily backup your full computer:

These are the programs that I use to easily back up a conventional spinning hard drive to faster, solid state hard drives. I basically backup solid state to solid state once a week. In my desktop computers I use a SSHD 2 drawer system...where the Floppy Drives would normally go.



Kingwin KF-251-BK 2.5" DUAL BAY internal SATA hot swap rack
Available at Amazon.ca [Click for all details and pricing.](#)

Backup Software:

- [Samsung Data Migration](#)...free when you buy a SSHD product.
- [AOMEI complete backup software](#)...Worth the purchase.

I use the AOMEI Professional version with the above SATA hot swap rack. The disk clone feature is fool proof and a great way to save hours of program installing on your PC. Click the links to watch YouTube tutorials.

[AOMEI website/purchase info](#)



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Inexpensive High Quality Mike :

By Bill VE3NH:

I admit to being a bit of a scrounger and having an aversion to spending big bux on items which I can build myself. So I present an inexpensive desk mike for less than \$25 in most cases.

Read the attached PDF on exactly how easy it was.



Click this banner for a full description.



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Magnetic Loop Antennae:

By Doug VE3GVW:

My interest in mag loop antennas was born out of my interest in operating on HF even though I only had the limited space of a 3 bedroom apartment. I tried mag sticks on the balcony , dipoles , end fed antennas etc in the apartment with little or no success.

What i needed was an antenna for limited space that worked.



VE3GVW Doug
Magnetic Loop
Basics



Read how I achieved a working solution....click the banner above.



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Do you have project to share with our group?

Your topic here?
Send your submission to VE3ISX

Contact Barry VE3ISX with your subject. It can appear here as a resource for the community.

[Back to home page](#)