

PC/Mac Software for Radio Amateurs  
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- The ARRL Software Library for Hams, version 4.0 ([www.arrl.org](http://www.arrl.org))
  - \$20 for the CD or a 500 MB download. See the included readme.pdf file for the ARRL 2-page summary.
  - 36 directories, 115 files, see ARRL\_SW\_Lib\_v4.txt for a listing.
  - Rocky ([www.dxatlas.com/Rocky](http://www.dxatlas.com/Rocky))
    - Rocky is software written by VE3NEA for SoftRock hardware ([groups.yahoo.com/group/softrock40](http://groups.yahoo.com/group/softrock40)).
    - SoftRock is a Software Defined Radio (SDR) that plugs into a computer USB port. The 1"x3" PC Board costs \$89.
  - CW Decoder
    - I installed this and ran it with a morse code generator I had from the 1980s. CW Decoder copied 40 wpm code well.
  - PowerPoint Presentations
    - See the 9 titles in the file listing. Who will give them???
  - Sound Samples
    - Fun to identify what you are hearing when tuning the bands. Lots can be learned by looking up the acronyms in Wikipedia.
    - ALE (Automatic Link Establishment)
    - AMTOR (Amateur Teleprinting Over Radio)
    - APCO25 ("Project 25", "P25", "APCO-25")
      - Association of Public-Safety Communications Officials
      - Federal, state, local public service agencies, emergency response
    - CLOVER
      - Modem modulation techniques for HF radio systems.
      - CLOVER-II by Ray Petit, W7GHM, and HAL Communications in 1990-92.
      - CLOVER-2000, higher-rate, wider bandwidth, 1995.
      - CLOVER-400, 400 Hz wide, Globe Wireless.
    - DIGTRX
      - DIGTRX is software, Written by Roland Zurmely Py4ZBZ, evolved from a suite of programs (known as RDFT software by Barry Sanderson KB9VAK) to send files over an audio bandwidth channel.
    - GTOR... (15 more)
  - Videos
    - 2 not-so-useful videos take 300 MB of the 500 MB Library, "Attaching a PL259 Connector" and "Working Split".
  - WA6NDR PC Favorites
    - DOSBox ([sourceforge.net/projects/dosbox](http://sourceforge.net/projects/dosbox))
      - For running old 16-bit Windows programs on 64-bit Windows 7+ machines. Free.
      - I use it with InstaTrack, Turbo Pascal 6.0, Lotus 123 v2.04, and other 20+ year-old applications.
    - InstaTrack ([www.amsat.org](http://www.amsat.org))
      - Satellite tracking software from the late 1980s with several ham features, free, from AMSAT. It is an old 16-bit program, that runs fine on my 64-bit Windows 7 desktop by using DOSBox.
    - Circuit Shop ([www.cherrywoodsystems.com/cshop1.htm](http://www.cherrywoodsystems.com/cshop1.htm))
      - Circuit Shop allows you to design, simulate and learn about digital and analog electronic circuits.
      - Free trial, \$29 to register. I've used it and paid the \$29. The author answered my emails quickly.
    - Echolink ([www.echolink.org](http://www.echolink.org))

- Free software allows connecting to any node via PC instead of on the air.
- Test Tone Generator ([www.esseraudio.com](http://www.esseraudio.com))
  - Timo Esser's Audio Software, 30-day free trial, \$20, licensed.
  - TTG turns your PC into a function generator and enables you to test and tune sound systems, teach others about sounds and frequencies, or create sound effects.
  - Also: Multi-Tone Generator, Noise Generator, PWM Generator, more.
- Programs that go with specific hardware products
  - Kenwood TH-G71A (example of rig channel/settings backup)
  - TinyTrak3 Config ([www.byonics.com/tinytrak](http://www.byonics.com/tinytrak))
    - TinyTrak is an Automatic Position Reporting System (APRS) Global Positioning System (GPS) Position Encoder, to interface between a GPS unit and 2m ham radio.
  - Vellman HPS40 Oscilloscope
- Not specifically Ham Radio, but worth mention
  - Google Earth ([www.google.com/intl/en/earth](http://www.google.com/intl/en/earth))
  - Dropbox ([www.dropbox.com](http://www.dropbox.com), 1 GB storage space free)
    - Email links to a large file instead of the file itself.
    - Create a directory tree to be shared on all your computers (PC, Mac, Linux) whenever they are connected to the Internet.
    - I used Dropbox to help develop this talk.
  - Audacity ([audacity.sourceforge.net](http://audacity.sourceforge.net))
    - "Free, open source, cross-platform software for recording and editing sounds"
  - XVI32 ([www.chmaas.handshake.de/delphi/freeware/xvi32/xvi32.htm](http://www.chmaas.handshake.de/delphi/freeware/xvi32/xvi32.htm))
    - A hexadecimal file editor, to see and modify the contents of \*any\* file. See the web page for its many features and uses.
- WA6NDR Mac Favorites
  - EchoMac ([echomac.sourceforge.net](http://echomac.sourceforge.net))
    - Allows a Mac to connect to the Echolink system.
    - Bring up repeaters worldwide using your laptop, headset/mic, and Internet connection (wireless or wired).
- KD7GHZ (Michael Carey) Mac Favorites
  - Maclogger DX ([www.dogparksoftware.com/MacLoggerDX.html](http://www.dogparksoftware.com/MacLoggerDX.html))
    - Organizing and filtering the spots from your favorite DX Cluster
    - Supports ~100 radios (auto-tuning)
    - Beam antenna control
    - 2D, 3D, and Satellite Maps
    - Logging your contacts to a SQL database
    - Sends email you when the Bands are open or rare DX is spotted.
    - Awards Tracking, Band Activity, Schedules, Memories, QSL Generation, ADIF import, export, eQSL, LoTW Confirmations and much more.
  - Aether ([aetherlog.com](http://aetherlog.com))
    - Awards Tracking; Rig Control via RS-232; Import/Export of Amateur
  - FLDIGI ([www.w1hkj.com/beginners.html](http://www.w1hkj.com/beginners.html))
    - Software to integrate a computer and HF SSB rig for various digital modes.
    - Uses the PC sound card for input/output.
    - Radio control via serial port.
    - Modes: DominoEX, MFSK16, PSK31, RTTY, more.
    - Available for FreeBSD, Linux, OS X, and Windows.
  - Cocoa Modem ([www.w7ay.net/site/Applications/cocoaModem](http://www.w7ay.net/site/Applications/cocoaModem))
    - Similar topology to FLDIGI, but different digital modes.