

WAYS TO USE YOUR CELLPHONE AS A HAM RADIO

- **OPERATION (13 apps)**
 - [International Radio Network](#) (3 slides)
 - Uses TeamSpeak application on Android/IOS/Windows FREE
 - How to install
 - How to create an account
 - How to get VERIFIED
 - What talk groups availableQUICK DEMONSTRATION
 - [Echolink](#) (2 slides)
 - Uses application for Android/Windows FREE
 - How to create an account
 - SysOp mode
 - RF Node using a radio to PC to link to Echolink.
 - Direct Node connected right to repeater.
 - Operator modeQUICK DEMONSTRATION OF K5MDK-R to WD5GSL/R.
 - [APRSdroid](#) (3 slides)
 - App for Android \$4.95
 - Provides local beaconing using phone's GPS
 - Provides a map of local APRS beacons from the APRS server.QUICK DEMONSTRATION
 - [Ham Square](#)
 - App for IOS FREE
 - Provides Maidenhead location using GPS with map
 - [HamGPS](#)
 - App for Android FREE
 - Provides Maidenhead location using GPS with map
 - RepeaterBook
 - [App for Android FREE](#)
 - [App for IOS FREE](#)
 - Repeaters near your GPS location
 - Repeater lookup
 - QRZAssistant
 - [App for Android FREE](#)
 - [App for IOS FREE](#)
 - Callsign Lookup
 - Provides basic details of ham
 - Helps with callsign lookup.
 - [CQ PSK31 by Black Cat Systems](#)
 - App for IOS \$2.99
 - Waterfall
 - Send/Receive PSK31 via speaker/mic
 - [Hellschreiber by Black Cat Systems](#)
 - App for IOS \$2.99
 - Send/Receive Feld Hell via speaker/mic
 - [ISS Detector](#)
 - App for Android FREE
 - Provides visual location of ISS Space Station with phone

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- Great for IIS QSOs.
- [PocketSat3](#)
 - App for IOS & Android \$24.99
 - Tracks all satellites, including AMSAT
 - Great for Satellite QSO
- WSPR (World) Watch
 - [App for IOS FREE](#)
 - [App for Android FREE](#)
 - Helps track spots
 - Helps guide for HF operations and band selection
- [QRSS Beacon for HAM Radio](#)
 - App for Android \$1.75
 - Does the SLOW CW code decode for beacons
- [MacLogger DX HD](#)
 - App for IOS \$39.99
 - Monitors and alerts you for specific spots on DX Clusters
 - Logs your QSOs output to ADIF
 - Works with MacLogger DX for the desktop machine
- TEST PREPARATION (5 apps)
 - [Amateur Radio Exam](#)
 - App for IOS now FREE
 - A separate app for Tech/General/Extra
 - Provides question pool study exam
 - Statistics guide user where to study more
 - [HamExam](#)
 - App for Windows 10 mobile FREE
 - Provides question pool study exam
 - Statistics guide user where to study more
 - [PalmVE](#)
 - App for Android FREE
 - Provides question pool study exam
 - [Ham Radio Exam](#)
 - App for IOS now FREE
 - A separate app for Tech/General/Extra
 - Provides question pool study exam
 - Statistics guide user where to study more
 - [Amateur Radio Exams 1.5.1 PRO](#)
 - App for Android FREE
 - Provides question pool study exam
 - Covers Tech/General/Extra
- REFERENCE (8 apps)
 - [Ham Radio Reference](#)
 - App for IOS \$1.99
 - Q-Signal Lookups, Glossary of terms
 - Band-Plans and much more
 - [Ham Radio Tools](#)
 - Callsign lookup
 - Log QSO

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- Find GPS info
- Wire Antenna length Calculator
- Other helpful ham calculators
- [Ham Reference](#)
 - Location map, dual channel audio generator, space weather
 - Resistor color codes, wire antenna calculator, MUF MUA, band plans
 - Cheat sheet references for new HAMs, UTS Clock and Station ID timer
- [HamAntCal](#)
 - App for IOS \$0.99
 - Antenna length calculator for many types of antennae
- [Morse It](#)
 - App for IOS \$0.99
 - encode, decode, learn, reference for Morse code
 - Converse with others that have this app audibly
- [Morse Code Training apps from KG9E](#)
 - Apps for Android \$1.49 each
 - Apps for different speed increments
 - Learn Morse Code.
- [Morse Code Trainer](#)
 - App for Android FREE
 - Helps develop basic Morse Code skills
- [MUF Predictor](#)
 - app for Android FREE
 - assist in everyday HF propagation prediction
 - MUF and LUF
 - Based upon MicroMUF written in 1984
- DXING SPOTS / DATABASES (5 apps)
 - [iCluster DX DB](#)
 - app for iOS \$2.99
 - Real-Time cluster
 - Several predefined servers
 - Alarm settings
 - QRZ.com lookup
 - HamQTH lookup
 - Map clusters
 - UTC Clock
 - [DXFunCluster](#)
 - app for Android FREE
 - Send and see DX Cluster spots
 - [SOTA Goat](#)
 - app for iOS \$2.99
 - Essential for any SOTA operator
 - Summit database
 - Map
 - Spots
 - Alerts
 - [CommCat Mobile](#)
 - app for iOS FREE

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- Control your radio's frequency, split, mode and PTT remotely
- Display and tune from incoming DX spots
- DX spot Push Notifications
- See beam heading, grid square, and distance to DX
- Play audio clips for many local and DX stations
- Monitor sunspot activity
- Send e-mail to other stations
- Remote control from your Apple Watch (iPhone only)
- Rotate your beam to any bearing
- Create custom radio control macros
- Use internal VoIP or Skype for 2-way audio
- View and edit your log
- Search your log for previous contacts
- Log and sync contacts, including your current location (perfect when operating portable!)
- Show your current location on the MyQX world activity map
- Display your operating conditions on a personal MyQX home page
- Remote control not required for spot management and logging
- QRZ Now
 - for Android via Amazon's App store FREE
 - Access Fine GPS location
 - News Update
 - DX Cluster
 - SWL
 - Learn CW
 - Listen Live Traffic
- RIG-SPECIFIC APPS (1 app)
 - KX3 Companion
 - Local Rig control for Elecraft K3 & KX3 rigs
 - Perform all functions including PSK31, RTTY, and CW
 - Audio Spectrum and Waterfall (pan adapter)
 - Requires USB connectivity to rig.
 - Remote capability under development using local server on Windows or Raspberry Pi
- SWL APPS (8 apps)
 - Skywave Radio Schedules
 - app for Android FREE
 - Find Shortwave Broadcast stations by frequency/time.
 - Utility stations have separate listing
 - Shortwave Broadcast Schedules by Black Cat Systems
 - [app for Android \\$0.99](#)
 - [app for IOS \\$2.99](#)
 - Listings for over 10,000 stations
 - Order of frequency or time
 - Log notations
 - favorites
 - Shortwave Radio Schedules
 - app for Android FREE

WAYS TO USE YOUR CELLPHONE AS A HAM RADIO

- Search by time/frequency/station/language
- Map of transmitter locations
- Log DX
- Record audio of the broadcast with log
- Global Tuners
 - ~~app for Android FREE~~
 - Now a WEB APP requires registration
 - Allows you to control and listen to SDR receivers located globally
 - Record option
 - Forum for logging and sharing
- [gISDR](#)
 - app for Android FREE
 - Client for connecting to Amateur Radio online servers
 - First client to connect is MASTER
 - Now offers TX mode, after creating account / verification
- [SSTV by Black Cat Systems](#)
 - app for IOS \$2.99
 - Code/Encode TV images without computer
 - Can be used with Amateur Radio
- [DroidSSTV by Wolphi LLC](#)
 - app for Android \$6.99
 - Code/Encode TV images without computer
 - Can be used with Amateur Radio
- [Interval Signal Ringtones](#)
 - app for Android \$1.98
 - Makes ringtones for your phone out of interval signals
 - of your favorite shortwave stations
- VIRTUAL TRANSCEIVERS (1 app)
 - [HamSphere](#)
 - App plus service subscription 30€/Year for iOS & Android
 - Virtual Transceiver client.
 - Simulates propagation, antennas, radios and gear.
 - Handles 160m to 6m over virtual ionosphere.
 - AM/SSB/CW all simulated with real QRM too.
- SCANNING APPS (4 apps)
 - [Scanner Radio](#)
 - App for Android FREE
 - Listen to live audio from over 7,000 fire/police scanners, amateur radio, weather, air traffic, marine and more.
 - [Scanner Radio Pro](#)
 - App for Android \$2.99
 - Same as Scanner Radio plus...
 - No Adds
 - 6 color schemes
 - Push notifications 5 minutes instead of 15 minutes
 - Ability to record audio
 - [Action Scanner Lite](#)
 - App for iOS \$1.99

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- Scan up to 4 channels at once
- Search for scan feeds world-wide
- Integrated map
- Action Scanner Pro
 - App for iOS \$2.99
 - Scan up to 6 channels at once
 - Favorites memory
 - Sleep timer for auto-shutoff
 - Search for scan feeds world-wide
 - Integrated map
- MARINE APPS (2 apps)
 - [DroidNavtex](#)
 - App for Android \$9.99
 - Decodes NAVTEX messages from your receiver using microphone.
 - Uses SI TOR-B (AMTOR) mode.
 - Set receiver to 518KHz or 490KHz SSB to use this app
 - HF Weather Fax by Black Cat Systems
 - [app for Android \\$4.99](#)
 - [app for IOS \\$4.99](#)
 - Receive marine Weather Charts
 - Set next to radio to receive
 - Displays and saves charts
 - NOAA/NWS broadcast Schedule provided
- AVATION APPS (1 app)
 - [LiveATC](#)
 - [App for Android \\$3.99](#)
 - [App for iOS \\$3.99](#)
 - Brows US / CAN provinces to listen to live air traffic
 - Favorites memory