

Line of Sight DX

The Worldwide TV-FM DX Association - PO Box 501, Somersville, CT 06072
The Official WTFDA Newsletter

Happy New Year 2025! Skip season is 6 months away!

January 2025 #3

NEW MEMBER. This month we welcome Mike Ehrhardt (Alden, NY) back to the WTFDA. Mike returns after a *very* long absence. I think that Mike will find Dxing to be much more of a challenge than it was back in the pre-DTV and pre-IBOC days.

SOLAR PROBLEMS. After a period of relatively quiet conditions, the sun is starting to act up again. Jim Thomas posted on the Wlogger "The Sun has gone nuts today. Almost 20 M class flares in the past 24 hours. Many have been Earth facing. Possible Au and Es by New Year's Eve. The flares are being spit out about one or two per hour, lasting from 5 to 15 minutes each."



Figure 1: Another new Franken FM?

WHAT? Rumor has it that Nick and Bryce's VHF podcast will be carried on 87.7 WTFD(A). Rumor also has it that the club's new Franken FM will be running 100kw from the top of a hi-rise in an undisclosed city somewhere in North America.

The photo to the left is proof that the new station does exist.

Anyone logging this station via Es or Ms should contact WTFDA HQ. Look for a PI of 8759. Programming consists of up-to-the-minute drone sightings. (Tks to Bill Hohnstein for the photo).

CANADA CHANGES. From Bill Hepburn on Discord: "CKYB-TV (4) Brandon, MB and CJCH-TV-6 (6) Caledonia, NS are both officially deleted. CKYB has been dark for a long time awaiting xmtr parts. CJCH-6's xmtr failed on 2024-09-27. CTV says they do not have the money to switch to DTV, so instead will delete these stations."

IS YOUR FIRMWARE REALLY FIRM? From Les Rayburn: "Have you updated the firmware for your AirSpy HF+ Discovery or HF+ Dual SDR yet? The current version is R5.0.1. So what is different? According to the change log, users can expect "Improved gain distribution and AGC/ATT Preamp controls for all bands" and "Improved AGC Hysteresis."True enough, but for those who DX FM, the result is improved dynamic range. You can expect to log more stations on adjacent channels to your powerful locals. You'll also notice that your semi-occupied channels may now reveal clearer audio from competing stations. And when signals are weak, you'll hear cleaner signals, even near the noise floor. For those who use Rabbit Ears autologger, you can expect some new stations in the log too. Updating the firmware is easy and takes only a few minutes. Loyd has a video to make it even easier: AirSpy Firmware R5.0.1 Download:

https://airspy.com/airspy-hf-discovery/ Les Rayburn(#fmdx on Slack)"



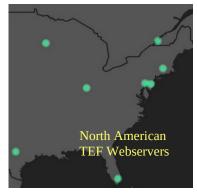
KGFN 89.1 Jim Thomas writes "You might find this interesting for the VUD. Randy Zerr sent this to me. The caboose will be the broadcast studios for KGFN 89.1 Goldfield, Nevada "Radio Goldfield". This also includes KDYR 90.9 Dyer, Nevada, and a translator station, K221AR Hawthorne, Nevada."

NOTE: Randy is in the picture - long sleeved dark gray shirt and brown pants. He didn't identify the others but they are people involved in the community radio station.

(The moral: No matter what lengths you go to find a reasonably clear FM band, the FCC will find you and plop down a LPFM or translator in your backyard.)

TEF WEBSERVERS. Over the past few weeks there have been some changes in the webserver world. WTFDAer Charly Gauthier started his own Montreal TEF webserver and other webservers have turned on in Hugo, MN (Minneapolis) and Austin, Texas. In the past few weeks we found a TEF webserver located in southwest Tennessee but at the moment it's off the air.

You can click <u>here</u> to find a map with all active worldwide TEF servers. Current webservers also include Hartford, Philly East (Tabernacle NJ), Philly West (West Chester), Miami and Edinburgh, Indiana.



RDS CORRECTIONS. Jim Thomas (<u>iim@wtfda.org</u>) is now acting as club laiason between the WTFDA and stations using RDS. Jim's job is to tell them of problems with their RDS display; missing or incorrect PI codes, etc. Jim has been in contact with the NRSC/NAB and has been told the process to employ to solve RDS issues as quickly and easily as possible. [Ed: here in CT I've told Jim of two station who use 0000 for their PI and as of today (12/31) both of them (CT Public Radio/WWUH) have changed back to the correct PI]. Note Jim's new email address for this project and please use that when asking for RDS corrections.

THE WTFDA FORUMS. They were there, then they were gone. Now they're back. Why, you ask. Well, we were under the mistaken impression that nobody was visiting the site. But they were. What we did to find out was to bring the site back online. Next, we found out how to add Statcounter to the site and then we just watched the stats daily to see if anyone was going to the site and we found that people were. We just didn't know it.

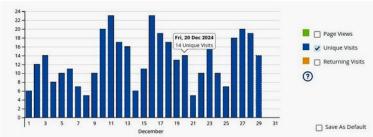


Figure 2: https://forums.wtfda.org

To the left you will see the daily stats for December. They aren't huge, but for a site of that size they're not bad. People are going there and reading the posts, and luckily, thanks to a few people, there are new posts to read.

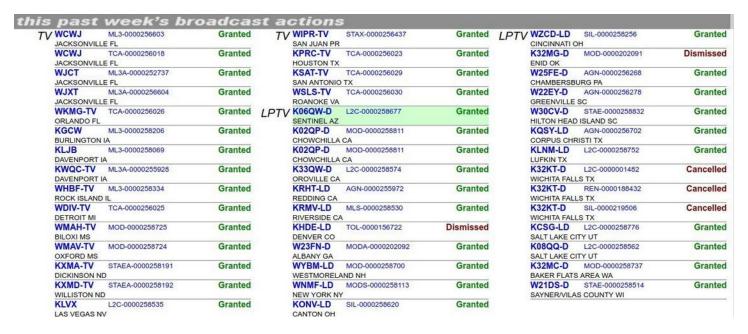
The forums are back. CU in February -Mike.

A TV NEWS PRIMER

How an editor would assemble TV News every month using https://fcc.today/tv/

The purpose of this article is to take the mystery out of how to assemble a monthly TV News column for our newsletter. In the past, finding the material you need was a chore. Now it's not, thanks to rec.networks and https://fcc.today/tv/. This is the same source we use for gathering facilities updates for the WTFDA FM database and the facilities updates in this newsletter. Fcc.today delivers near-real-time grants and changes from Monday through Friday from 8am throughout the afternoon, and on Saturday and Sunday they publish the entire week's worth of changes. Use whatever method works best for you.

What information would an editor need? Let's look at the weekly roundup at fcc.today for the period of december 2nd through the 6th. Here's what's there:



Much of what you see above can be ignored. If an editor wanted to include LPTVs and translators (and an editor might or might NOT want to include these), the editor would look for MOD, MODA, SIL, CSRE/CSRI (modifications, silent stations and callsign changes) designations and list those.

Fcc.today also shows applications. These can be of value to Dxers and could/should be included. For example, see the graphic below...

| Full Service TV | | | | Full Service TV | | | |
|-----------------|---------|--------------------|-----------|---------------------|--------------|-----------------------|----------|
| EEO-0000258968 | WTJP-TV | GADSDEN AL | RECEIVED | EEO-0000258972 | WELF-TV | DALTON GA | RECEIVED |
| EEO-0000258969 | WMPV-TV | MOBILE AL | RECEIVED | EEO-0000258971 | WHSG-TV | MONROE GA | RECEIVED |
| EEO-0000258970 | WMCF-TV | MONTGOMERY AL | RECEIVED | CSRI-0000258935 | NEW | SYRACUSE NY | PENDING |
| EEO-0000258973 | WSES | TUSCALOOSA AL | RECEIVED | CP-0000258945 | NEW | JACKSONVILLE OR | PENDING |
| CP-0000258958 | NEW | VERNON AL | PENDING | STAE-0000258919 | WPGD-TV | HENDERSONVILLE TN | PENDING |
| RENA-0000196366 | KPIX-TV | SAN FRANCISCO CA | PENDING | Ownership Reports-N | oncommercial | | |
| RENA-0000196366 | KPIX-TV | SAN FRANCISCO CA | REVIEW | OWR-0000258939 | JOURNEY C | HURCH OF TIFTON, INC. | RECEIVED |
| RES-0000258949 | KTAS | SAN LUIS OBISPO CA | SUBMITTED | | | | |
| CP-0000258954 | NEW | TULARE CA | PENDING | | | | |
| RES-0000258953 | KKCO | GRAND JUNCTION CO | SUBMITTED | 735 | | | |

Let's look at the applications list above and let Doug Smith himself show you how he would handle applications.

Looking at what's on there today, I assembled this one-day report:

| TX | Corpus Christi | 30 | KQSY-LD | Sold to Channel 30 of Corpus Christi, LLC |
|----|-----------------|----|---------|---|
| CA | San Luis Obispo | 34 | KTAS | Returned to the air Dec. 6, 2024; off since Sept. 9 th . |
| CA | Tulare | 3 | NEW | Application for new station, 2.3kw/823m, 36-17-14/118-50-19 (<i>One Ministries, Inc.</i>) |
| CO | Grand Junction | 12 | KKCO | Returned to full power Dec. 6, 2024; was at reduced power of 16.3kW since Aug. 7^{th} equipment failure. |
| NY | Syracuse | 15 | WKOF | Calls requested for new station. (WSTQ Licensee, LLC) |
| OR | Jacksonville | 4 | NEW | Application for new station, 900w/410m, 42-17-51/122-45-04 (<i>theDove Media</i> , <i>Inc.</i>) |

(I generally ignored renewal applications, and that's what the two KPIX-TV applications were.)

For, for example, Tulare... I:

- Clicked on the CP-0000258954 File Number.
- Looked at the heading *New NCE TV Station Construction Permit*, the *Purpose (Construction Permit)*, and the *Status. (Pending)*.
 - This indicates this is an application for a new non-commercial ("NCE") TV station.
 - Noted the *City* and *State* (Tulare, California)
 - Noted the *Applicant* further down the page. (*One Ministries, Inc.*)
- Clicked *Channel and Facility Information* on the left.
 - This scrolled down to show the *Effective Radiated Power* and *Height of Radiation Center Above Average Terrain.* (2.3kW & 823m)
 - (the Height Above Average Terrain is usually either blank or zero for LPTV stations.)
 - It also showed the tower coordinates (36-17-14.2N, 118-50-18.6W) and the physical channel. (3)

If this had been an application (or permit) to modify an existing station, I would have gathered the above information and then...

- Googled on "FCC LMS search"
- Opened the *Application Search* << *Licensing and Management System* << *FCC* link
- Typed the callsign in the *Call Sign* box & hit Enter
- Located the newest entry with *Purpose* of *License to Cover* or *Minor Modification* and *Status* of *Granted*
- Clicked on that entry
- Clicked on Channel and Facility Information
 - This will show the last previously-authorized channel, power, antenna height, and coordinates.

That allows you to determine what's changing.

You could then use this page to determine whether that's an increase or decrease in coverage.

- *Select Contour Type: F*(50,90) *Digital TV Service Contour*
- Select Channel Range: (select whether the channel is VHF Low, VHF High, or UHF)
- Find This: Field Strength, given a Distance (in km)
- *ERP* (*kW*) and *HAAT* (*meters*): fill in the figures from the LMS search and the *Channel and Facility Information*.
- *Distance (km):* (Pick a reasonable figure 50km (30 miles) would be a good choice. You're going to compare the signal at 50km with the new facilities to the signal at the same distance with the old facilities.)
- Find Result

Do once with the old facilities from the LMS search, and again with the new facilities from the *Channel and Facility Information*. It'll tell you whether the new facilities are an increase or a decrease.

I would suggest that if you are interested in looking up data for TV News or just for your own personal enjoyment, go to https://fcc.today, select either TV or FM and click on the callsigns or the filename just to the right of them. For MOD (modifications), clicking the callsign will bring you to a page containing the *newest* data. Clicking on the filename, especially for SIL stations, will show you the date the station went (or will g silent and will let you view the letter that was sent to the FCC giving their reasons for going silent. -END-

Silent STA Request KBZZ(AM) 1270 kHz Sparks, NV K245DC Carson City, NV December 2024

On November 29, 2024 the KBZZ(AM) transmitter went off the air. Investigation found that a mouse infestation had taken out the power supply section of the transmitter. Cleaning and repair of the transmitter is in progress but is going slowly. It is hoped and expected that the licensee will be able to get the transmitter fixed before the site gets snowed in, but with unpredictable winter weather it is uncertain how accessible the site will be during any given week. (Unlike most AM transmission sites, the KBZZ site is situated on a hilltop which is 1300 feet above the valley floor.)

Up until this time, KBZZ had been operating under a half-power engineering STA, due to continued issues after the transmitter site was vandalized in June 2023.

KBZZ is retransmitted on FM translator K245DC Carson City. Under the terms of the K245DC license and §74.1263(b), the translator must be taken silent during extended periods of the AM station's silence. The licensee had been hopeful that the AM transmitter would be repaired prior to 10 days of silence, but that effort has not yet been successful. Therefore, a separate request for silent STA is also being filed for K245DC, for silence as of today's date.

FCC GRANTS AND ACTIONS

From fcc.today and the FCC January 2025

| Calls | Freq | City | St | Change |
|----------|-------|-----------------------|----|---|
| KLIU | 89.9 | , Unalakleet | AK | Ex KLUI |
| WXKI-LP | 100.7 | Battleground | AL | Ex NEW |
| W234DI | 94.7 | Douglas | AL | Silent 11/20/24 extended STA, lost tower site |
| W269AX | 101.7 | Anniston | AL | 33-40-53 85-48-57 new tower site |
| KAWX | 89.3 | Mena | AR | resumed operatons, was silent |
| KAWX-LP | 93.1 | Mena | AR | Ex KGHA-LP |
| KEUD | 89.9 | Eudora | AR | 150w/21m, 33-09-07 91-15-40 |
| KURM | 100.3 | Gravette | AR | resumed operations, was silent |
| NEW | 93.7 | North Little Rock | AR | 45w/45m, 34-44-37 92-16-33 |
| NEW | 92.9 | Springdale | AR | 42w/46m, 36-10-07 04-06-56 |
| KBKG | 93.5 | Corning | AR | Silent 11/22/24 financial difficulties |
| KFFH-LP | 93.7 | North Little Rock | AR | Ex NEW |
| KZOM | 96.5 | Claypool | ΑZ | Ex KIKO-FM |
| NEW | 91.9 | Phoenix | ΑZ | 100w/19m, 33-26-34 112-05-10 (fac id 788085) |
| NEW | 91.9 | Phoenix | ΑZ | 20w/66m, 33-41-41 112-07-04 (fac id 788307) |
| KWFH | 90.3 | Parker | ΑZ | 800w/761m from 3.5kw/761m, move tower site |
| NEW | 92.9 | Maricopa Indian Comm. | ΑZ | 100w/29m, 33-29-37 111-49-38 |
| KZUL-FM | 104.5 | Lake Havasu City | ΑZ | 270w from 230w, move tower site |
| KRCY-FM | 96.7 | Lake Havasu City | ΑZ | 270w/817m from 260w/825m, move tower site |
| NEW | 96.9 | LeGrand | CA | 100w/11m, 37-13-53 122-15-04 |
| NEW | 99.3 | Ojai | CA | 100w/-362m, 34-26-48 111-19-46 |
| NEW | 101.3 | Ventura | CA | 2w/220m, 34-17-48 119-16-24 |
| KBVE | 107.9 | Boonville | CA | Ex NEW |
| KYNO-LP | 107.7 | Fort Bragg | CA | HAAT -28m from 2m, new tower site |
| NEW | 92.9 | Lafayette | CA | 100w/-12m, 34-42-18 85-17-56 |
| KZLA-FM1 | 98.3 | Riverdale | CA | 800w-V from 5kw-V |
| KJCN | 107.5 | Sutter Creek | CA | Silent 4/18, looking for new tower site, STA extended |
| KZLA-FM1 | 98.3 | Riverdale | CA | 800w-V from 5kw-V |
| KSRH | 88.1 | San Raphael | CA | Silent 4/22 equipment replacement, STA extended |
| KPDC-LP | 104.7 | Ukiah | CA | Ex NEW |
| KEWG-LP | 103.9 | Ukiah | CA | Ex NEW |
| K205BM | 88.9 | Oakland | CA | primary to KLVS-HD3 |
| NEW | 90.1 | Big Sur | CA | 50w/45m from 10w/68m, new tower site |
| NEW | 91.3 | Coalinga | CA | 100w/-120m, 36-08-51 190-21-59 |
| NEW | 89.9 | Caloma | CA | 38w/47m, 38-51-29 120-49-22 |
| NEW | 90.5 | Bishop | CA | 500w/-218m, 37-22-32 118-23-39 |
| KAZB | 94.3 | Wilkenson | CA | Ex NEW |
| K245AI | 91.9 | San Pasqual | CA | Primary to KLVJ 102.1 |
| NEW | 94.7 | Bakersfield | CA | 100w/-28m, 35-23-47 118-53-10 |
| NEW | 93.1 | Watsonville | CA | 100w/-99m, 36-56-58 121-44-31 |

| KOJY-LP | 99.3 | Ojai | CA | Ex NEW |
|----------|-------|------------------|----|---|
| KSUR | 90.1 | Big Sur | CA | Ex NEW |
| KCFU | 91.3 | Coalinga | CA | Ex NEW |
| KFOS | 89.9 | Coloma | CA | Ex NEW |
| KFTT | 88.5 | Penn Valley | CA | Ex NEW |
| KITS-FM6 | 105.3 | Alamo | CA | 220w, 37-48-57 122-03-45 |
| KITS-FM8 | 105.3 | Cocord | CA | 140w, 37-55-57 122-07-24 |
| KITS-FM5 | 105.3 | Orinda | CA | 570w, 37-53-57 122-13-15 |
| KITS-FM7 | 105.3 | Pleasanton | CA | 135w, 37-44-20 121-59-43 |
| KITS-FM9 | 105.3 | San Francisco | CA | 400w, 38-01-17 121-59-16 |
| KLLC-FM6 | 97.3 | Concord | CA | 360w, 37-55-57 122-07-24 |
| KLLC-FM4 | 97.3 | San Francisco | CA | 150w, 37-48-57 122-03-49 |
| KLLC-FM5 | 97.3 | San Francisco | CA | 44w, 37-44-20 121-59-43 |
| KLLC-FM7 | 97.3 | San Francisco | CA | 500w, 38-01-17 121-59-16 |
| KLLC-FM3 | 97.3 | San Francisco | CA | 1kw, 37-52-57 122-13-15 |
| KWCB-LP | 94.7 | Wasco | CA | Silent 6/2/24 financial difficulties, personnel issues. |
| NEW | 88.5 | Penn Valley | CA | 100w/244m, 39-07-57 121-05-56 |
| KWCB-LP | 94.7 | Wasco | CA | Silent 6/2 & Extended, lack of resources and personnel |
| KFTT | 88.5 | Penn Valley | CA | 100w/244m from 390w/89m & new tower site |
| KHFJ-LP | 94.5 | Hermosa | CO | Ex NEW |
| NEW | 105.5 | Aurora | CO | 57w/40m, 39-38-08 104-47-25 |
| K223CU | 92.5 | Colorado Springs | CO | Silent 12/4 with transmitter problems |
| NEW | 103.3 | Waterbury | CT | 27w/57m, 41-27-21 73-02-24 |
| W204BL | 88.7 | Gainesville | FL | 27w from 19w, 17m-V only, new tower site |
| NEW | 107.3 | Deland | FL | 75w/35m, 29-01-35 81-16-23 |
| NEW | 102.5 | Deland | FL | 100w/23m, 29-01-52 81-18-10 |
| W268DQ | 101.5 | Dunnelton | FL | 250w-H only, new site 29-08-05 82-11-13 |
| NEW | 107.3 | Deland | FL | 75w/35m, 29-01-35 81-16-23 |
| NEW | 102.3 | Deltona | FL | 28w/56m, 28-53-30 81-17-08 |
| NEW | 102.3 | Sanford | FL | 17w/72m, 28-49-02 81-19-53 |
| W212CG | 90.3 | West Palm Beach | FL | resumed operations, was silent |
| NEW | 100.7 | Cape Coral | FL | 52w/42m, 36-38-05 81-51-52 |
| NEW | 93.9 | Cocoa | FL | 45w/45m, 28-21-23 30-44-06 (fac id 788358) |
| NEW | 93.9 | Cocoa | FL | 45w/45m, 28-21-23 30-44-06 (fac id 788176) |
| NEW | 100.7 | Fort Myers | FL | 25w/59m, 26-29-17 81-55-46 |
| W295BJ | 106.9 | Jupirwe | FL | Primary to WFLM-FM 104.7 |
| W240CI | 95.9 | North Palm Beach | FL | Primary to WFLM-FM 104.7 |
| NEW | 102.9 | Citrus Springs | FL | 100w/30m, 28-59-25 82-26-32 |
| NEW | 95.1 | Ocala | FL | 57w/40m, 29-10-38 92-08-41 |
| NEW | 93.3 | Ocala | FL | 41w/47m, 29-12-05 82-09-04 (fac id 788397) |
| NEW | 93.3 | Ocala | FL | same specs as Ocala above but fac id 788224 |
| W228DF | 93.5 | Orlando | FL | Silent 12/12, lost their primary station |
| NEW | 94.5 | Homestead | FL | 15w/56m, 25-28-09 80-29-07 |
| WCPR-LD | 97.5 | John's Creek | GA | Ex NEW |
| NEW | 101.9 | Norcross | GA | 100w/29m, 34-00-12 84-15-20 |
| NEW | 88.9 | Roswell | GA | 31w/53m, 34-02-10 84-20-19 |
| | | | | |

| WRJS | 88.1 | Soperton | GA | resumed operations, was silent |
|----------|-------|-----------------|----|--|
| W270AS | 101.9 | Carrolton | GA | resumed operations, was silent |
| KBZB | 107.5 | Kihei | HI | Ex KHEI-FM |
| KIXK | 95.1 | Wailuku | HI | Ex KAOI-FM |
| KSRR | 94.3 | Makawao | HI | Ex KDLX |
| KLNY | 88.9 | Lanai Ciy | HI | 1.8kw/456m from 1.6kw |
| KSHW | 88.3 | Glidden | IA | Ex 91.9, 100w/19m from 2kw |
| K256DM | 99.1 | Webster City | IA | Ex 92.9 (K225BZ) |
| K269FQ | 101.7 | Montpelier | ID | resumed operations, was silent |
| WGVR-LP | 105.3 | Bloomington | IL | Ex NEW |
| WBWJ | 88.3 | Rochester | IL | 1.25kw/66m from 1.1kw/72m |
| WYRX-FM | 94.3 | Plymouth | IN | Ex WZOC |
| WONS | 91.5 | New Castle | IN | 310w/38m from 500w/38m |
| KPSR | 89.3 | Smith Center | KS | Silent 11/1 QRM to WISP antennas on same tower |
| K217CV | 91.3 | Beloit | KS | Silent 12/16, new full power station on the same channel |
| W201DD | 88.1 | Central City | KY | Primary to WAYD 88.1 |
| W253BK | 98.5 | Winchester | KY | Primary to WJWA-HD2 |
| NEW | 89.7 | Louisville | KY | 100w/17m, 38-13-29 85-44-23 |
| WNYX | 91.7 | Olive Hill | KY | Ex NEW |
| WYNX | 91.7 | Olive Hill | KY | Ex WNYX (which probably was a typo) |
| WHCV | 89.9 | Hazard | KY | 500w/-16m from 40w/143m and move tower site |
| KLRZ-FM1 | 100.3 | New Orleans | LA | 700w, 29-54-23 90-02-22 |
| KLPI | 89.1 | Ruston | LA | resumed operations, was silent |
| NEW | 94.7 | Monroe | LA | 100w/10m, 32-28-56 92-04-50 |
| NEW | 104.1 | New Orleans | LA | 11w/89m, 29-59-24 90-04-07 |
| WTFB-LP | 94.1 | Berlin | MD | Ex NEW |
| WEMA-LP | 94.3 | Fort Washington | MD | HAAT 14m from 8m, move tower site |
| W284BE | 104.7 | Havre de Grace | MD | Silent 8/20, primary (WHGM) is silent |
| WGYS | 91.9 | Rumford | ME | Ex NEW |
| WVBH | 91.9 | St. James | MI | Ex NEW |
| WDRZ | 89.1 | Shelby | MI | Ex NEW |
| NEW | 89.5 | Laurium | MI | 1kw/144m from 6kw/125m, new tower site |
| NEW | 105.3 | Lansing | MI | 100w/-70m, 42-45-27 84-32-47 |
| WSHG | 89.7 | South Haven | MI | 150w/45m from 750w/45m |
| NEW | 95.1 | Holland | MI | 100w/12m, 42-47-08 86-06-24 |
| WDRK | 89.5 | Larium | MI | Ex NEW |
| WELY-FM | 94.5 | Ely | MN | Silent 11/24/24, two unexpected deaths, AM & FM silent |
| K207AY | 89.3 | St. Robert | МО | 170w from 250w-V, move tower site |
| NEW | 99.7 | Maplewood | МО | 30w/54m, 38-28-21 90-18-15 |
| K234CE | 94.7 | Sedalia | МО | Silent 12/3 relocation not completed |
| K245BO | 96.9 | Warrensburg | МО | Silent 12/3, fed by K234CE which is also silent |
| KPPZ-LP | 98.5 | Kansas City | МО | 49w/43m from 100w/30m and move tower site |
| NEW | 107.9 | Centerview | МО | 85w/8m, 38-46-46 93-50-18 |
| WWUN-FM | 101.5 | Friars Point | MS | Silent 10/29, technical problems |
| W274CH | 102.7 | Meridian | MS | Silent 10/30/24 Primary (WQMS 1500) is silent |
| KHSI-LP | 97.5 | Conrad | MT | license canceled |
| | | | | |

| KHSI | 89.7 | Conrad | MT | Ex NEW |
|---------|-------|----------------|----|--|
| KXEB | 91.3 | Big Timber | MT | 480w from 1kw, new tower site |
| K215GT | 91.1 | Great Falls | MT | Silent 10/25 transmitter failure |
| WGHC | 90.3 | Robbinville | NC | Ex WLET |
| NEW | 101.3 | Mooresville | NC | 100w/15m, 35-33-07 80-46-25 |
| NEW | 91.5 | Aydlett | NC | license canceled |
| KARR | 90.3 | Alliance | NE | 125w/20m from 10kw/20m, new tower site |
| KARR | 90.3 | Alliance | NE | 125w from 10k, new tower site |
| KBTI-LP | 96.5 | Omaha | NE | Ex NEW |
| KXNM | 88.7 | Encino | NM | Silent 11/18 equipment problems |
| NEW | 106.9 | Henderson | NV | 100w/-28m, 36-00-27 114-56-29 |
| KHIQ | 89.9 | Tonopah | NV | Ex NEW |
| K254AK | 98.7 | Reno | NV | Primary to KYSA-HD3 |
| NEW | 89.9 | Tonopah | NV | 15w/102m from 100w/98m |
| K245DC | 96.9 | Carson City | NV | Silent 12/9 primary (KBZZ) is silent |
| NEW | 94.9 | Las Vegas | NV | 100w/-128m, 36-18-03 115-16-39 |
| KSWR-LP | 94.9 | Las Vegas | NV | Ex NEW |
| KGFN | 90.1 | Goldfield | NV | Ex New, 100w at -43m from 30w at 502m, new tower site |
| W227EF | 93.3 | Port Jervis | NY | COL fm Quinns Corner PA, from 103.3 W277DH |
| W203AW | 88.5 | Fredonia | NY | primary to KAWZ 89.9 |
| W204BJ | 88.7 | Old Forge | NY | Silent 11/22/24 xltr causing interference to WSLH 88.7 |
| WNKI | 96.9 | Wauseon | ОН | license canceled |
| W263AX | 103.7 | Circleville | ОН | Silent 11/21 pending station move |
| NEW | 99.5 | Middletown | ОН | 75w/-7m, 39-29-25 84-24-29 |
| NEW | 100.1 | Sheffield Lake | ОН | 100w/24m, 41-29-09 82-05-20 |
| WHRN | 88.3 | Newark | ОН | 4.7kw/63m from 1.7kw/145m |
| KBDM | 88.3 | Boardman | OR | Ex NEW |
| KZRY | 90.1 | Seaside | OR | Ex NEW |
| NEW | 88.3 | Boardman | OR | from 5kw to 100w, HAAT -23m, new tower site |
| KBSR | 91.5 | Burns | OR | 100w/-61m from 300w/256m, move tower site |
| K223CV | 92.5 | Albany | OR | Silent 9/30/24 pending relocation to another site |
| WLWS | 90.1 | Scottsdale | PA | Ex WLSW |
| WLSW | 103.9 | Scottsdale | PA | Ex WKHB-FM |
| WMZB-LP | 95.5 | Brague | PA | Ex NEW |
| W233BY | 92.5 | Collinsville | PA | Primary to WPKV 98.3 |
| NEW | 94.9 | Indiana | PA | 100w/-1m, 40-36-56 79-08-14 |
| NEW | 98.3 | Lajas | PR | 10w/93m, 18-04-01 67-01-13 |
| WCXQ-LP | 90.9 | Isabela-Camuy | PR | license canceled |
| NEW | 89.3 | Quebradillas | PR | 64w/30m, 18-27-22 66-55-30 |
| NEW | 93.7 | Mayaguez | PR | 100w/12m, 18-12-07 67-11-05 |
| NEW | 97.9 | Boqueron | PR | 50w/15m, 17-59-39 67-08-30 |
| WMDS-LP | 95.1 | Woonsocket | RI | 80w/34m, 42-01-19 71-35-34 |
| NEW | 94.1 | Greenville | SC | 57w/40m, 34-46-10 82-27-29 |
| NEW | 93.3 | Bath | SC | 100w/3m, 33-29-51 91-51-18 |
| K201HB | 88.1 | Aberdeen | SD | Silent 11/22 requested by KFCA |
| K209EM | 88.1 | Huron | SD | license canceled (fac ID 93602) |
| | | | | |

| DKGVG | 88.5 | Encinal | TC | license canceled |
|---------|-------|-----------------|----|---|
| WJIG | 88.1 | Bruceton | TN | 150w/21m from 6kw/69m |
| KVUT | 99.7 | Cuney | TX | resumed operatons, was silent |
| NEW | 88.1 | Sierra Blanca | TX | 100w/22m, 31-11-15 105-21-21 |
| K278DA | 103.5 | Houston | TX | resumed operatons, was silent |
| KWGR-LP | 102.9 | Wichita Falls | TX | HAAT change to 30m from 92m and site change |
| KLMH | 88.5 | Lamesa | TX | Ex NEW |
| K240EO | 95.9 | Lufkin | TX | Silent 11/19, transmitter malfunction |
| KWGD | 88.7 | Dalhart | TX | 32kw-H/72m-H from 28kw-H/64m |
| KOWD | 90.7 | Memphis | TX | 500w/92m from 800w/122m |
| NEW | 106.5 | Seagoville | TX | 75 watts, 35m, 32-41-21 96-33-12 |
| DKVGV | 89.3 | Cotulla | TX | license canceled |
| KHRG | 90.1 | Follett | TX | new tower site 36-25-51 100-28-29 |
| NEW | 98.7 | Temple | TX | 22w/63m, 31-05-19 97-20-52 |
| KFRO-FM | 99.7 | Cuney | TX | Ex KVUT |
| KMCL | 91.5 | Mclean | TX | 300w/53m from 3kw/68m |
| K239CC | 95.7 | Burleson | TX | resumed operations, was silent |
| K226BM | 93.1 | Cleburne | TX | resumed operations, was silent |
| K217GB | 90.3 | Houston | TX | Primary to KHVU-HD2 |
| K213EW | 90.5 | San Angelo | TX | Primary to WYFQ-FM (NC) |
| NEW | 104.5 | Tomball | TX | 47w/44m, 30-04-58 95-43-55 (fac id 779270) |
| NEW | 104.5 | Tomball | TX | 9w/98m, 30-04-14 95-42-39 (fac id 788138) |
| NEW | 102.7 | Jewell | TX | 75w/35m, 30-48-04 97-36-02 |
| K228EP | 93.5 | Laketown | UT | 200w-V from 10w H/V. |
| WIIJ | 90.9 | Rocky Mount | VA | Ex NEW |
| WPPB-LP | 101.5 | Petersburg | VA | Ex NEW |
| W288BS | 105.5 | Reston | VA | Primary to WTOP-FM-HD2 |
| NEW | 94.7 | Charlottesville | VA | 27w/57m, 38-01-56 78-31-09 |
| W252DP | 98.3 | Moneta | VA | 37-09-15 79-37-20 new tower site |
| KLMN | 106.5 | Raymond | WA | Ex NEW |
| KRSE | 105.7 | Yakima | WA | 20kw/236m from 100kw/172m, new tower site |
| KOPL | 89.3 | Omak | WA | 200w/781m from 86w/781m |
| K225DI | 92.9 | Tacoma | WA | Ex 104.1 (K281CI) |
| NEW | 101.7 | Manitowoc | WI | 44-06-32 87-40-07 |
| W212CQ | 90.3 | Menomonie | WI | 10w, 44-52-06 92-04-30 |
| NEW | 106.7 | Rhinelander | WI | 100w/9m, 45-39-37 89-26-03 |
| NEW | 100.5 | Sturgeon bay | WI | 100w//-6m, 44-50-03 87-22-41 |
| WVTP | 91.3 | Kermit | WV | Ex NEW |
| K284BI | 104.7 | Alpine | WY | resumed operations, was silent |
| K206EO | 89.1 | Granite | WY | from 92w to 120w |
| KWUW | 90.5 | Dubois | WY | Ex NEW |
| KJUW | 88.9 | Pinedale | WY | Ex NEW |
| WXRP | 90.5 | Matewan | WY | Ex NEW |
| NEW | 88.7 | Thermopolis | WY | 350w/598m from 1800w/698m |
| | | | | |

FM STATIONS HEARD IN SOUTHERN ARGENTINA VIA TEP



Jose Kucher

November 30 at 5:40 PM · @

91.9

FΜ

List of FMs received via TEP propagation at Chimpay (Rio Negro Argentina) site. include 2023 and 2024 listings

88.1 FM La Mega, Aruba

88.6 FM Besame Barranquilla Colombia

88.7 FM Policia Valledupar Colombia

88.9 FM Radio NAC de Venezuela

89.1 FM Radio Caribe Cuba

89.1 FM Tropicana Barranquilla Colombia

89.1 FM Radio Taino Cuba

89.3 FM Uniguajira Stereo Valledupar Colombia

89.3 FM Moody radio Miami USA

89.7 FM Cacica stereo Valledupar Colombia

89.7 FM WMLV Klove Miami

89.7 FM CDN Radio, Dominicana

90.1 FM Wradio Barranguilla Colombia

90.1 FM La voz del Toa Cuba

90.2 FM Caliente Stereo bosconia Colombia

90.5 FM Olimpica Stereo Cartagena Colombia

90.6 FM Codazzi, Codazzi Colombia

90.7 FM Palma Barahona Dominicana

91.7 FM Cardinal Stereo Riohacha Colombia



Panamericana Venezuela

91.9 FM Radio reloj Cuba

91.9 FM Unimagdalena Santa Marta Colombia

92.1 FM Olimpica stereo Barranquilla Colombia

92.2 FM Radio Nac de Colombia La Guajira

92.6 FM Principe de paz Barranquilla Colombia

92.7 FM Supernova Machigues Venezuela

92.7 FM WEOW Key west USA

93.1 FM La mega Barranquilla Colombia

93.3 FM Radio Taino Cuba

93.3 FM Radio Progreso Cuba

93.7 FM Rumba Riohacha Colombia

94.0 FM Radio Nac de Colombia

94.5 FM Radio Jamaica jamaica

94.7 FM Cardinal stereo San juan del cesar colombia

95.1 FM Radio Revolucion Santiago de cuba

95.1 FM Radionica Riohacha Colombia

95.1 FM Radio Nac colombia Santander

95.5 FM Radio Rebelde Cuba

95.9 FM Miraflores Caracas Venezuela

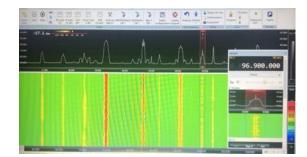
97.3 FM Radio Nac Colombia

97.7 FM Radio Nac Colombia Valledupar

98.1 FM Radio Nac Colombia Magdalena

99.3 FM Radio Progreso Cuba

This list was pulled from one of the Facebook Groups. It was posted on November 30^{th.} Chimpay, Argentina to Miami is 4,500 miles. The antenna used is a five element yagi.



Format Flips

and branding, too

John Zondlo - fmdxweb@cox.net

January 2025

Welcome to the all-new and exciting Format Flips! How's that for a rebranding statement right off the bat? Lots of different sources contribute to the creation of this column and you can have your name right there with them at the bottom of the page. If a station in your area flips their format from, say, classical to alternative, send me an e-mail at the above address. As they said on the original Iron Chef, you will gain "the people's ovation and fame forever." Let's get on with this month's column......

AL

Townsquare Media hands down wins the award for the most bizarre stunting of the month. Alternative WQRR 101.7 Reform AL (Tuscaloosa market) has switched to Christian AC as "101.7 The River," but not without fanfare. Radio Insight has the best review of it here. Maybe I should be surprised that so many fell for this prank, but I'm not.

AZ

KZOM 96.5 Claypool AZ is no longer oldies. New owners Orozco Broadcasting have changed the format to Regional Mexican with the moniker "La Z 96.5." Be sure not to confuse it with XHCW, also "La Z 96.5," in Los Mochis, Sinaloa, during an Es opening.

KJXL 94.7 Blue Ridge AZ is now on the air with a Variety Hits format as <u>"94.7 Jack FM."</u> They boast "...biggest playlist ever conceived in radio."

CA

KLLY 95.3 Oildale CA has been rebranded by owner Alpha Media as "Live 95.3." Sadly, the station parted ways with its local staff as part of Alpha's latest bloodletting last summer.

KHTI 103.9 Lake Arrowhead CA is now simulcasting co-owned KATY 101.3 Idyllwild and it's AC format. "More music, more variety for the IE," is how the stations are presenting themselves. IE, btw, is Inland Empire, fwiw.

FL

WWRF 1380 Lake Worth FL has flipped from Spanish CHR to Variety Hits as "96.9/94.7 Jack FM." So, following along are the translators W245AY 96.9 Lake Worth and W234DA West Palm Beach. With the old format WWRF was only pulling a .4 share in the November Neilsen book.

The Light is now on in the St. Augustine FL area. W267BX St. Augustine is now being fed by WBHU-HD3 105.5 St. Augustine Beach FL with a slogan change to "The Light 101.3 FM." The Christian AC format hit the airwaves at midnight December 26^{th.}

GA

Now on the air with Urban Gospel is WZZV-LP 100.3 LaGrange GA. Love chasing those LPFMs. Finally got my first by Es last summer.

НΙ

After buying the Visionary Related Entertainment group of stations on Maui, Akamai Broadcasting has made some wholesale changes to the cluster. KSRR 94.3 Makawao is now AC "Star 94.3" after being CHR as KDLX. KIXK 95.1 Wailuku, formerly adult alternative as KAOI, is now "Kix 95.1," along with translators K243BY 96.5 Honokawa and K249EH 97.7 Honokawa. K250CC Kihei is now oldies "Wowie 97.9," rebroadcasting KEWE 1240 Kahului (not to be confused with the wowie in Maui in 2002...IYKYK). Rythmic Hawaiian KNUQ 103.9 Paauilo retains the "Q-103" branding, but flips from CHR to Hot AC. The station's 2 translators, K277AW 103.3 Napili and K277AX 103.3 Paia, are now HD-fed the Rhythmic Hawaiian format with the branding "103.3 The Beat." And finally, K254CS 98.7 Kihei is now HD-fed with Rhythmic Throwbacks as "98.7 The Vibe."

102.3

Can there ever be enough Jack stations? Commonwealth Broadcasting doesn't think so. They flipped three of their stations in Kentucky to the Variety Hits format after stunting with Christmas music til the holiday was over. "Jack FM" is now on WLLI 102.3 Munfordville, W239BT 95.7 Glasgow and W253BN 98.5 Glasgow. I'm so glad our Variety Hits station in OKC is named Alice. Guess you could say we don't know Jack, but I'm not going there.

ΜI

<u>Smile FM</u>, the CCM network blanketing Michigan, has another new signal on the air. It's WHSI 88.9 Litchfield MI. Incidentally, Smile is acquiring KSNS 91.5 and KREJ 101.7, both in Medicine Lodge KS, from Florida Public Radio. Both will retain their Christian format, with one likely to be "Smile FM."

Another boost for Boost Radio is the addition of W215CH 90.9 in Grand Ledge MI, a Lansing suburb. The Boost Radio programming replaces K-Love 2000's on this EMF-owned translator.

MN

In lovely Mankato MN, home of the Minnesota State University Mavericks, KEEZ 99.1 has returned to its longtime branding as "Z99." It's also gone back to CHR after a time as Hot AC. KEEZ is one of the many Alpha Media stations that put all of its local staff "on the beach" last summer.

KJCA 88.1 Marshall MN is now on the air with the Mankato MN based "Kinship Radio" network. The format is mainly Christian programs, with some light CCM.

Also on the air in Minnesota is KWHH 88.3 Fairmont, owned by We Have This Hope Christian Radio. Most of their programming is from the Life Talk Radio network.

MO

Variety Hits is a popular format flip this month. KCKC 102.1 Kansas City MO has switched to it as "102.1 Bob FM." It was AC in its previous life. Good on them, tho, for keeping the entire staff, although they are jockless til mid-January.

ND

@988

Following a frequency change from 99.1 to 98.5 and stunting with Christmas music since late October, KQYZ Emerado ND is now classic hits and known as "981/2 – Q98." The station will still carry North Dakota State sports and Green Bay Packers football, 2 things they'd be crazy to give up.

OH

The November 2024 merger of Soaring Eagle Promotions and River Radio Ministries has led to several Ohio stations switching from Soaring Eagle's "Rise FM" contemporary Christian music (CCM) format to River Radio's "The River" CCM programming from WCVO 104.9 Columbus. Those switching include WSOH 88.9 Zanesfield, WKEN 88.5 Kenton, WJEE 90.1 Bolivar, WHEI 88.9 Tiffin, and W216AH 91.1 Ashland.

<u>EMF</u> continues its buying spree with the acquisition of WKVR 102.5 Baltimore OH. They're running "K-Love," giving WCVO some competition in the Columbus market.

SC

W247CC Greenwood SC is still Urban Contemporary with a splash of Urban Gospel, but it's now known as "Emerald City Radio." The station is a translator for WCZZ 1090 in Greenwood, which is known as Emerald City. I'm guessing you get to Greenwood by following the yellow brick road.

"Star 99.5" is the new name of W258CB Greenville SC. The format is AC, and is being fed by WJMZ HD3 in Anderson SC.

SD

O'Neill NE-based The Praise Network has put two new stations on the air in SD. KGRL 89.3 Miller and KGGY 88.9 Gregory are using the branding "Good News Radio." They feature a mix of programs and CCM.

TN

Boost Radio is now heard on W244BY Memphis TN, fed by WWAI-HD2 94.9 in Bartlett TN. Though the translator is owned by Educational Media Foundation, Gateway Creative Broadcasting is using it to expand the reach of Boost.

TX

KVUT 99.7 Cuney TX is no longer silent. It's taken the call letters KFRO-FM and is simulcasting coowned classic hits KFRO 1370 Longview.

KROI 92.1 Seabrook TX is no longer Urban Gospel. New owner Spanish Broadcasting System has introduced Regional Mexican <u>La Ley 92.1</u> to the frequency. The Urban Gospel format remains on KMJQ-HD2 102.1 Houston.

UT

KXFF 106.1 Colorado City UT is now relaying KDXU 890 St. George UT. KXFF was going by "Fox Sports Utah," but is News/Talk now with new call letters KDXU-FM. Owner Townsquare Media has also given up the license of KHKR 1210 Washington UT, which had been feeding "ESPN 97.7" K249EQ St. George UT. The translator is now being fed by KDXU-FM HD2.

VA

iHeartMedia has rebranded Rhythmic AC WMOV 107.7 Norfolk VA from "Movin' 107.7" to "Party 107.7." They say they're playing "feel good hit music." We'll see how good they feel after the first book.

WI

WHSM 101.1 Hayward WI has returned to its previous country format and branding as "Musky 101." It tried Variety Hits as "101.1 The Cabin" for two months, which obviously didn't work out. Also in Hayward, W245CT 96.9 is now rebroadcasting 910 WBZH Hayward, which is known as the "Buzz of the North" with liberal talk.

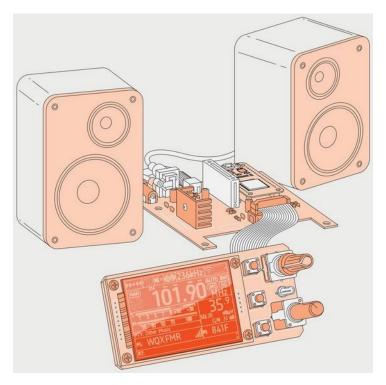
Continues on page 21

Hacking A Car-Radio Chip Into The Ultimate SDR Receiver

Pull in the weakest FM and AM signals with this DIY build

30 Nov 2024 IEEE SPECTRUM

Sjef Verhoeven is a radio amateur and DIY enthusiast in the Netherlands.

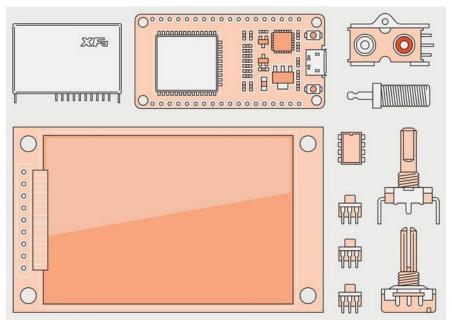


At a time when we all carry smartphones that can stream high-definition movies into our hands, the romance of listening to old-school analog broadcast radio nevertheless endures. For some it's a break from the cookies, contracts, and terms of service that lurk behind every online activity. For folks like me though, a big part of the charm is the thrill that comes from pulling in a signal from thousands of kilometers away—and doing it the time-honored way: with an understanding of atmospheric conditions, antennas, and electronics.

This pastime of using varied knowledge and skills to pull in very distant stations is called DXing. Today, digital signal processing makes it possible to put stupendously capable receiver electronics into an economical and very portable package, so there's never been a better time to be a DXer. And among these high-performance electronics, there's arguably no better example than the <u>TEF6686 chip</u>, introduced in 2013 by <u>NXP</u> <u>Semiconductors</u> and revised multiple times since then.

The chip has been very successful in car radios, in part because of its low cost and high audio fidelity, but especially because of its astoundingly high sensitivity and selectivity to radio signals. The TEF6686 can receive both FM and AM, and can be configured to accommodate the different bandwidths used by stations in different countries. It can also decode a broadcast station's digital RDS (<u>Radio Data System</u>) feed, which when present contains continuously updated information such as the title of a song currently playing.

The chip's extreme selectivity and sensitivity results from its adept use of software-defined-radio and digital-signal-processing (DSP) technologies to filter out adjacent frequencies. This enables reception of very weak signals that would otherwise be drowned out by nearby broadcasts. The chip has proven irresistible to radio enthusiasts, attracted by features of the chip that go far beyond what is needed by a car radio. It can receive not just the commercial broadcast bands, but also the shortwave and long-wave bands. The chip can also provide instantaneous signal-strength information.



The TEF6686 chip can be found in a handy module [top left] that provides electromagnetic shielding and a through-hole interface. An ESP32-based development board [top middle] controls the module and performs signal processing. An LCD screen [bottom left] displays the user interface, which is controlled using buttons and rotary controls [bottom right]. James Provost

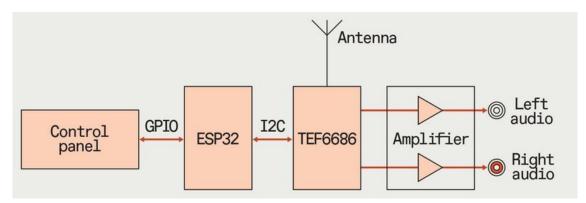
As an active radio amateur (PE5PVB) in the Netherlands, I became intrigued by the enthusiastic reviews I started seeing of the TEF6686. During the COVID lockdown of 2020, I started designing a completely open-source tuner that would wring the highest possible performance out of the chip for FM DXers. My enthusiasm grew when I found TEF6686 tuner modules on AliExpress. These contain a TEF6686 chip in a DIY-friendly package, suitable for through-hole soldering (the TEF6686 itself is a surface-mounted chip), and with radio-frequency shielding to help minimize interference. These modules are cheap—they can generally be found for around US \$25.

I soon settled on a configuration consisting of two printed circuit boards connected by ribbon cable. There's a main board, which contains the TEF6686 module and the microcontroller, and a display board, with a small OLED display and the switches and encoders that control the radio. I evaluated various versions of Arduino-compatible microcontrollers, and found that most were all too slow and had insufficient flash memory.

The microcontroller needs a lot of flash because it must store not only all the firmware that operates the radio, which is sent to the TEF6686 after every boot up, but it also must store the different fonts for the display, various images, as well as a database of North American call signs and of Canadian provinces and U.S. states (this info, coupled with other capabilities, enables the user to immediately see the call sign and state where

the transmitter they are receiving is located). Eventually I settled on <u>a variant of</u> the <u>ESP32</u> module, that had the speed and memory capacity I needed, but that still could be programmed using the popular <u>Arduino IDE</u>.

In early 2021, I released on GitHub an initial version of the firmware and schematics for other DIYers. I also was in contact with a DIY Webshop in the Netherlands, Team AmateurRadioShop.nl, which still sells a kit of an earlier version of the radio. In the fall of 2021, I created a second version with a so-called human-machine interface (HMI) display fromNextion. This display has a built-in processor, so I could hand off more user-interface tasks from the ESP32. This sped up the radio considerably, and also opened up some new graphical possibilities. In this version I also added Wi-Fi, which permits connection to online resources such as XDR GTK, a user interface that allows for fine computer control of the radio tuner, and RDS Spy, which decodes the RDS data into usable information in real time. If you want to build this version yourself, you'll have to have your own printed circuit boards made up. But Gerber files, a bill of materials, and construction tips are available on my Web site at www.pe5pvb.nl. Soldering it together will take about 2 hours.



The display and controls are directly connected to the microcontroller using general-purpose input/output pins, while the TEF6686 receiver chip is controlled via commands sent over a serial I2C interface. The left and right channels are amplified and passed to standard RCA audio sockets. James Provost

For those who don't feel like making a kit, there's an option for you, too. Early in 2022, a Chinese hobbyist, Justin Peng, contacted me to say he had built a portable version out of my design. That summer, the first versions based on this design of his <u>appeared on AliExpress</u>. In the months after that, interest in my open-source project exploded, and the radio was adopted by FM DXers worldwide.

In 2023, I was contacted by a Czech hobbyist, <u>Marek Farkaš</u>, who invited me to a group he was establishing on the <u>Discord social platform</u> with other hobbyists devoted to working on and improving software for this radio. In this team we now have a graphic designer, some folks who are specialists in RDS, others who are very skilled programers, and a Chinese fellow who wrote a version suitable for use by hardware designers looking to make a radio for the AliExpress market. Together, we completely reviewed the code and added a smoother graphical design, more connectivity, selectable languages, and other improvements.

I am very grateful to this team for all their hard work to make this open-source radio perhaps the highest-performing radio of its kind, ever. I hope you'll try it out, and even if you don't spend your time hunting for distant stations, rediscover the joy of high-quality FM radio broadcasting!

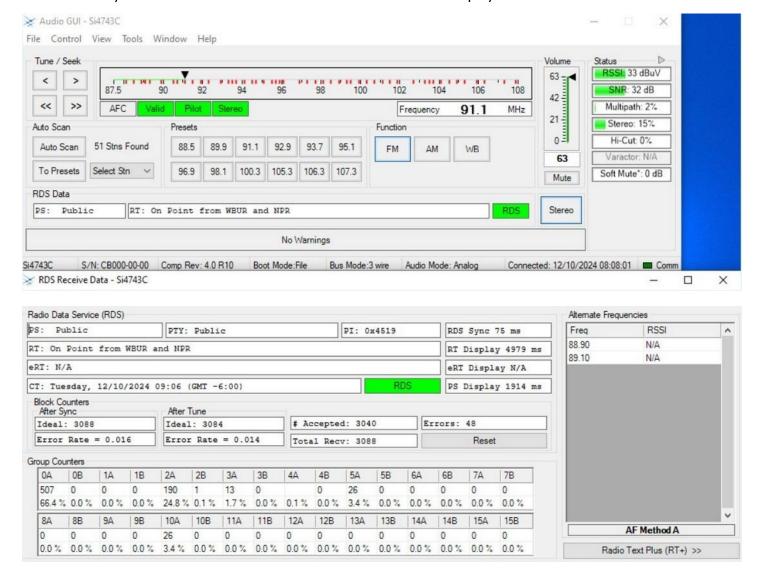
Skyworks FM Tuners Evaluated

Bill Hohnstein

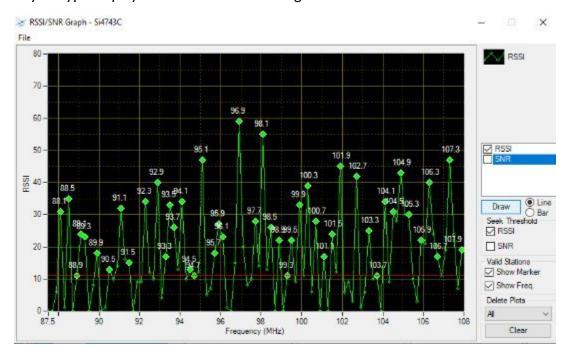
On Nov 20 Les Rayburn asked about people's experience with the Skyworks Si4706 FM tuner IC. That IC along with a few other Skyworks IC's have High Performance RDS capability. According to their specification sheets, the Skyworks tuners have 9 dB greater RDS sensitivity than the TEF6686.

That reminded me of seeing information on their Evaluation Boards in the past. I decided to purchase two of those: Si4743-C-EVB and Si4735-D60-EVB. The 4743 has High Performance RDS and covers FM & AM broadcast plus shortwave, longwave and the weather frequencies. The 4735 is "available with High Performance RDS" and covers FM & AM broadcast plus shortwave & longwave frequencies. I am looking into what "available with" means.

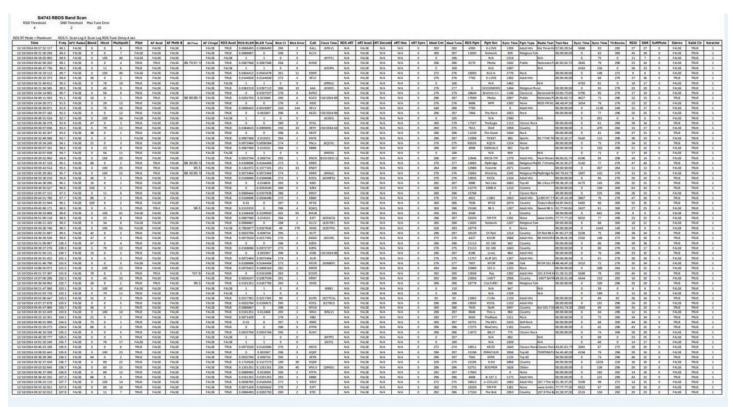
I have done my first tests with the Si4743. The FM tuner and RDS displays are shown below:



A spectrum analyzer type display shows the stations being received:



It also has a band scan feature which provides a spreadsheet file of the received RBDS information:

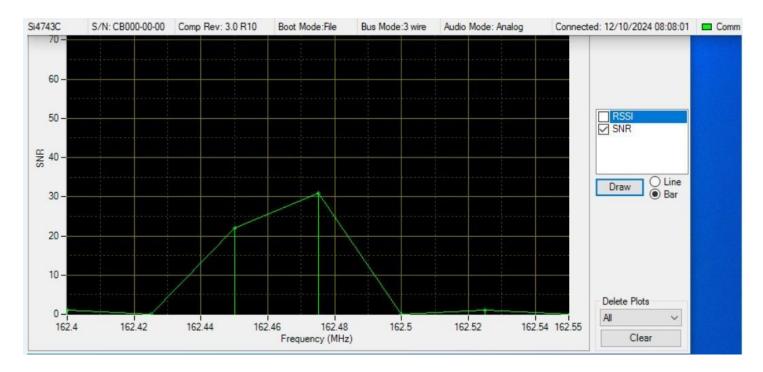


Since there generally wasn't much information in the Clock Time column, I corrected the call sign errors there caused by incorrect RBDS's being sent and weak signals. My corrections are shown in parenthesis. That was just done from my memory, so still more corrections are most likely needed. When two stations are shown on

one frequency, that was due to my combining scans from multiple antenna headings. More involved antenna changes would add additional stations.

There are not as many unique features for receiving the weather frequencies. Here is a quick look at some of those displays:





12/10/2024 10:13

| Time | Freq | AFC | Alert State | Alert Off | Alert On | RSSI | SNR | Valid Ch | Call |
|-------------------------|---------|-------|-------------|-----------|----------|------|-----|----------|---------|
| 12/10/2024 10:13:51:418 | 162.4 | FALSE | FALSE | TRUE | FALSE | 0 | 2 | FALSE | WXL-74 |
| 12/10/2024 10:13:56:418 | 162.425 | FALSE | FALSE | TRUE | FALSE | 0 | 0 | FALSE | |
| 12/10/2024 10:14:01:527 | 162.45 | FALSE | FALSE | TRUE | FALSE | 9 | 22 | FALSE | WNG-549 |
| 12/10/2024 10:14:06:637 | 162.475 | FALSE | FALSE | TRUE | FALSE | 21 | 31 | TRUE | WXM-20 |
| 12/10/2024 10:14:11:730 | 162.5 | FALSE | FALSE | TRUE | FALSE | 0 | 0 | FALSE | |
| 12/10/2024 10:14:16:714 | 162.525 | FALSE | FALSE | TRUE | FALSE | 0 | 0 | FALSE | |
| 12/10/2024 10:14:21:808 | 162.55 | FALSE | FALSE | TRUE | FALSE | 0 | 0 | FALSE | |

It's nice to know the measurement time down to the millisecond. I manually added the above call signs. I previously serviced those three weather transmitters. More detailed measurements will be coming.

The spreadsheet above is just a small sample of the complete report which is at:

Skyworks FM Tuners Evaluated - WTFDA Forums

There are added measurements to be made.

FORMAT FLIPS CONTINUES FROM PAGE 14

W273DQ 102.5 Milwaukee WI is now owned by <u>The Family</u> radio network. It's a translator of co-owned WEMK 1460 West Allis WI. The format has switched to CCM.

WGIF 90.1 Rice Lake WI is now on the air with religious programming. It's owned by Calvary Baptist Church of Barron WI. WGIF is the first full power non-com in Barron County.

KKBE 89.5 Winchester WY is new to the airwaves airing <u>Your Network of Praise</u> programming. They're joined by KRWY 90.1 in Lander, also owned by YNOP. Check out the YNOP website for a nice listing of net stations (lots of 'em throughout the west).

Sources: Indianaradio.net, Northpine, RadioInsight, Hisair.net, LPFM Database, IRCA's DX Monitor, InsideRadio, and radio biz connections

Stephen King's Radio Stations to Sign Off for Go

By Brian Sullivan WABI

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BANGOR, Maine (WABI) - Stephen King's radio stations are signing off for good at the end of December. The Zone Corporation announced Monday morning that after 41 years, WZON (620), WKIT (100.3), WZLO (103.1)will sign off on Dec. 31. In a press release, King cited losses in the millions of dollars and his age as reasons for the shut down. The Kings bought WZON in 1983.

"While radio across the country has been overtaken by giant corporate broadcasting groups, I've loved being a local, independent owner all these years," said King. "I've loved the people who've gone to these stations every

day and entertained folks, kept the equipment running, and given local advertisers a way to connect with their customers. Tabby and I are proud to have been a part of that for more than four decades."

The Zone Corporation said they would be making no further public comment nor conducting interviews on the subject.

Part of the press release is below:

When internationally known author Stephen King first entered the radio business in 1983, it was with the enthusiasm and love of a lifelong rock and roll fan and as a listening member of the greater Bangor community.

He also was a young man of 36 with a lifetime of creativity ahead of him. Now, in good health but feeling his 77 years, King says it's time to "get his business affairs in better order," and that means saying good-bye to the radio stations that he personally has kept afloat and on the air all these years.

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Flagship station WZON, which first went on the air in Maine in 1926 as WLBZ, was purchased by the Kings in 1983. The call letters were changed to WZON, a nod to Stephen King's best seller The Dead Zone and a rock and roll format was instituted. The station never made money and for a time, even surrendered its commercial status to become a donor supported enterprise. In 1990, the station was sold, only for the Kings to re-acquire it three years later and bring back the commercial model.

***Note: WKIT 100.3 has found a buyer and will stay on the air ***

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