

## Cathay September 2015

[www.cathayradio.org](http://www.cathayradio.org)

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**Mission:** The Cathay Amateur Radio Club is basically an active social club of Ham Radio Operators and their spouses. We support local community requests for HAM emergency communications. Several of us are trained in CPR/ First Aid and are involved with community disaster preparedness.

**Monday Night Net Time:** 9 PM Local Time/PST, Frequencies: 146.67MHz -600KHz PL85.4 and 442.70 +5MHz PL 173.8. The repeaters are linked only during the CARC Monday night net.

Update: Link to repeater 442.70 is currently not active until further notice.

The CARC Monday night net is the best way to find out the latest club news.

All check-ins are welcome.

## **Message from the President: George Chong, W6BUR**

Hello CARC Members and Friends;

This has been a very busy month for me and for all the folks that I know. We are all trying to get as much done knowing that there are only 3 months left in this year.

The **Silent Key Section** of this newsletter is dedicated to both of our beloved club members and dear friends that have passed away this year from natural causes:

- Manfred Jang – W6TRN (age 91)
- Leo (Tony) Halog – KR6EG (age 56)

Although you are both gone, you will always be in our hearts and will be greatly missed by all the Cathy Amateur Radio Club members; “73” and “88”.

## **Edison Fong (WB6/QM) Recap of the August 8, 2015 Ham Tech Session**

Our summer Pizza lasagna party was another great success. We had about 35 people attend with plenty to eat and drink. The Pizza, most voted as the crowd favorite was the bacon- garlic chicken. I think most of the food at the event was consumed by my guest. I bought 12 lbs of lasagna, four family size stuff pizzas, 3 gallons of ice cream and plenty of drinks. Also, thanks to all the folks that brought snacks. That really topped it off.

This year I gave the talk on the County Comm GP5/SSB radio. This is the world's first hand held software defined radio on the market with true SSB detect. The genius behind this radio is Nick Cassarino, the President of County Comm. I was involved in the later designs that incorporated the SSB/CW function.

I went through the architecture and passed around a GP5 taken apart showing the Motorola 68HC11 microcontroller and the Silabs 4735 chip. If you don't already have one, they are still available to Cathay members for \$60.

Nick was present at the meeting and gladly answered questions on the design and manufacturing of the GP5/SSB. He also added a lot of insight into his company and how it is run. Nick is just full of ideas and is one of the most creative persons I know.

About the raffle; well I had to go all out and purchased a Dell Inspiron Quad Core laptop with 4 GB of ram and 500 GB of hard drive. Believe it or not, this is considered “low end” now and it is almost impossible now to find a dual core computer these days.

Congratulations to Cliff Shak - KH6IKL on winning the laptop. Hey, didn't he also win the GP5 radio during the HAM Field Day event? This guy is really lucky. The lucky winners of the raffle prizes were:

- |                            |  |
|----------------------------|--|
| • Cliff Shak – KH6IKL:     | Grand prize winner of the Laptop           |
| • Ron Quan - KI6AZB:       | 2 <sup>nd</sup> prize GP5 radio            |
| • Thomas Leibold - KK6FPP: | 3 <sup>rd</sup> prize Baofeng UV5          |
| • Grant Gauger - KJ6WGT:   | 4 <sup>th</sup> prize Digital Multi-meter  |
| • Bob Yee – W6VVQ:         | 5 <sup>th</sup> prize Journey's edge knife |

Pictures taken at the Ham Tech Event are toward the end of this newsletter.

- Ed Fong

The **Featured Tech Article** resume in the October 2015 issue of the CARC Newsletter.

### **CARC Final Wrap-up News**

Chat sub s'em to all you CARC members! - George W6BUR.

## **Public Service Announcements**

### **HAM CRAM / HAM Licensing**

For upcoming HAM Licensing locations please refer to:

<http://www.arrl.org/find-an-amateur-radio-license-exam-session>

### **Auxiliary Communications Service (ACS)**

The Auxiliary Communications Service (ACS) was organized by the San Francisco Office of Emergency Services (OES) following the 1989 Loma Prieta Earthquake to support the communications needs of the City and County of San Francisco when responding to emergencies and special events.

The Auxiliary Communications Service holds General Meetings on the third Tuesday of each month at the San Francisco Emergency Operations Center, 1011 Turk Street (between Gough Street and Laguna Street), from 1900 hours to 2100 hours local time. All interested persons are welcome to attend.

The ACS Net begins at 1930 hours (7:30 p.m.) local time each Thursday evening, on the WA6GG repeater at 442.050 MHz, positive offset, tone 127.3 Hz. The purpose of this net is to practice Net Control skills, practice checking in with deployment status in a formal net, and to share information regarding upcoming ACS events. Guests are welcome to check in. ACS Members should perform Net Control duty on a regular basis. On the second Thursday of each month, the net will be conducted on the output frequency of the WA6GG repeater, 442.050 MHz no offset, tone 127.3 Hz, simplex.

For more information, please attend an ACS meeting or check in on a net, or call 415-558-2717.

Upcoming meetings: Tuesday 7pm, Sept 15, 2015  
Tuesday 7pm, Oct 20, 2015  
Tuesday 7pm, Nov 17, 2015

### **Gilbert Gin (KJ6HKD)**

Free Disaster Preparedness Classes In Oakland:  
<http://www.oaklandnet.com/fire/core/index2.html>

CORE is a free training program for individuals, neighborhood groups and community-based organizations in Oakland. The underlying premise is that a major disaster will overwhelm first responders, leaving many citizens on their own for the first 72 hours or longer after the emergency.

If you have questions about the recertification process, you may contact the CORE Coordinator at 510-238-6351 or [core@oaklandnet.com](mailto:core@oaklandnet.com).

### **Free Disaster Preparedness Classes In San Francisco – NERT Taught by San Francisco Fire Department**

#### **September**

2nd: Ask an Elmer: informal session with ham radio mentors. 6:30p-8:30p, SFFD DOT\*

9th: NEW! PG&E training for NERT/CERT volunteers  
Personnel from Pacific Gas & Electric (PG&E) have developed a training for NERT volunteers. PG&E personnel will provide the training. The training will deliver an overview of the gas/electric systems. It will also demonstrate keeping safe and what to look for and report after an earthquake

11th-14th: Urban Shield Bay Area Exercise needs volunteers.  
Register at [www.urbanshield.org](http://www.urbanshield.org), then email NERT at [sffdnert@sfgov.org](mailto:sffdnert@sfgov.org) to report that you registered.

12th: Neighborhood Command Post (NCP) Operations I. 8:30a-4:00p, SFFD DOT\*

19th: NCP Operations II. 8:30a-4:00p, SFFD DOT\* Pre-requisite: NCP I

29th: ICS Forms workshop. 6:30p-9:00p, SFFD DOT\* details

30th: SFPUC Drinking Water, 6:30p-8:30p, SFFD DOT\*

RSVP to [sffdnert@sfgov.org](mailto:sffdnert@sfgov.org) or call 415-970-2024 to register.

Visit [www.sfgov.org/sffdnert](http://www.sfgov.org/sffdnert) to learn more about the training, other locations, and register on line. Upcoming Special NERT Events.

### **San Francisco Police Department: Auxiliary Law Enforcement Response Team (ALERT)**

The Auxiliary Law Enforcement Response Team (ALERT) is a citizen disaster preparedness program designed. The ALERT program is for volunteers 16 years of age or older, who live, work, or attend high school in San Francisco.

Graduates of the San Francisco Police Activities League (P.A.L) Law Enforcement Cadet Academy are also eligible to join.

ALERT volunteers will first complete the Fire Department's Neighborhood Emergency Response Team (NERT) ([www.sfgov.org/sfnert](http://www.sfgov.org/sfnert)) training and then graduate into an 8 hour Police Department course specifically designed for ALERT team members.

ALERT members will work closely with full-time and/or Reserve Police Officers in the event they are deployed after a disaster. The Basic ALERT volunteer will have no law enforcement powers other than those available to all citizens.

### **SFPD ALERT Training**

The next ALERT training classes have been scheduled for **Saturday, October 24th, 2015**. The classes will be held at the San Francisco Police Academy, in the parking lot bungalow, from 8am-5pm (one hour lunch break).

IMPORTANT- All participants must complete the background interview process in order to be eligible to attend the ALERT training class.

Eligible ALERT participants may register for a training class by contacting the ALERT

Program Coordinator, Mark Hernandez, at [sfpdalert@sfgov.org](mailto:sfpdalert@sfgov.org), or by telephone at 415-401-4615.

**SFPD ALERT Practice/Training Drill**

All active/trained ALERT members are asked to join us for our next training drill, scheduled for Saturday November 7, 2015 9AM – 1PM. Details will be emailed to active ALERT members, prior to the date of the exercise. Participation is not required, but strongly encouraged.

For more information on the San Francisco Police Department ALERT Program, email us at [sfpdalert@sfgov.org](mailto:sfpdalert@sfgov.org), or call Sergeant Mark Hernandez (SFPD, Ret.), SFPD ALERT Program Coordinator, at (415) 401-4615.

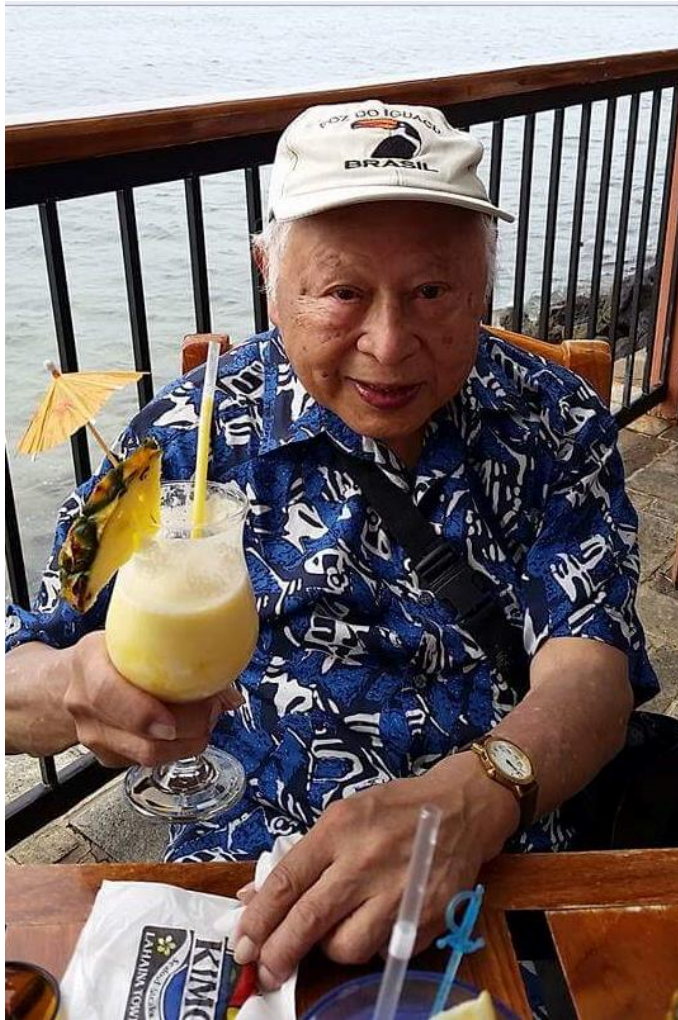
For additional information on the web please refer to:

<http://sf-police.org/index.aspx?page=4019>

## Silent Key – Part I

Manfred H. Jang – W6TRN (August 20, 1923 – July 28, 2015)

By Rodney Yee – KJ6DZI



Manfred giving a pina colada toast!

Long time CARC member, Manfred H. Jang (W6TRN), age 91 passed away peacefully at his San Francisco Home on the evening of July 28, 2015 from heart failure.

George W. Chong (W6BUR), President of the Cathay Amateur Radio Club first met 22 year old Manfred Jang thru Edwin Wong (N6YCG) shortly after being discharged from the US Military in early 1946.

At the time Manfred, Edwin and George all lived in San Francisco Chinatown so with their common interest in Ham radio; close proximity to each other and US military service in WWII became the basis of a lifelong friendship.

In March 1943, 19 year old Manfred served in the China Burma India Theater of Operations with the US Army 26<sup>th</sup> Signal Corp as a cryptographer otherwise known as radio operator.

He met and became friends with Edwin Wong (another radio operator) during their overseas deployment together

Manfred H. Jang (W6TRN) was one of the three original founders of the Cathay Amateur Radio Club along with Edwin G. Wong (N6YCG), and Winston E Wong (W6ULR) some 66 years ago back in 1949. Manfred and the other club member chose

Winston Wong to be first president of the Cathay Amateur Radio Club, since Winston co-owned a sound recording business in commercial radio broadcasting.

Manfred is the one that introduce US Army Colonel Chow to the Ham radio. Colonel Chow took such an interest that he became the financial benefactor to purchase radio equipment for start up the Cathy Amateur Radio Club.

Manfred's passion for HAM radio went beyond most people's interest; his call sign W6TRN remains active in the FCC database. He was one of the very few people that went through the expense and troublesome installation of a 10 meter AM mobile Ham Radio in his CAR during the 1950s..... this was a very rare occurrence in back in those days.

Manfred and his Ham buddies would all pile into his white colored Oldsmobile 4 door sedan and would take long drives together to the Livermore Veterans Administration facility. During those long drives, they would jointly operate Manfred's mobile radio making many contacts to distant parts of the country.

Manfred did not talk much about his military service in WWII, figuring that it was the right thing to do and it was no big deal. Of course we all know better; that US military service in World War II was in fact a big deal especially in the area of communications where Manfred's radio operator skills in Morse code were in great demand.

People not knowing Manfred might mistake his cool and calm demeanor as aloofness but that was far from the truth. He in fact was a kind, gentle and very humble man who chose to devote his life toward community public service by choosing a career with the City and County of San Francisco Probation Department. He was also active with the San Francisco Chinatown Community and a recipient of the California Civic Recognition Award for acts of compassion and kindness over the many years.

He remained a lifelong resident of San Francisco with his wife, Frances of over 60 years. He is also survived by , six children and their spouses Lori (Bill Hinkle) , Gary, Kimberly (Ronald Lum), Brian (Sophia Jang), Steven (Miho Jang) and Michele Jang and his grandchildren Kristle future-son-in law Derrick, Jenise Lum, Megan Lum, Cameron Lum, Erin Jang, Leon Jang and Keana Jang.

## **Silent Key – Part I (cont.)**

### **Manfred Jang Memorial Luncheon**

Manfred Memorial Luncheon was held at 12 noon on August 29, 2015 at the Sixteen Mile House Restaurant (448 Broadway, Millbrae, CA 94030)

Manfred's family extended a very generous invitation to the CARC Club to attend the memorial luncheon and was given the VIP table at the event. The restaurant was packed with some 100 guests.

The CARC club gave a very emotional tribute speech about Manfred's importance and involvement with the Cathay radio club spanning over some 66 years. There were several other affectionate and moving speeches of remembrance by family and close friends.

The CARC club member in attendance were:

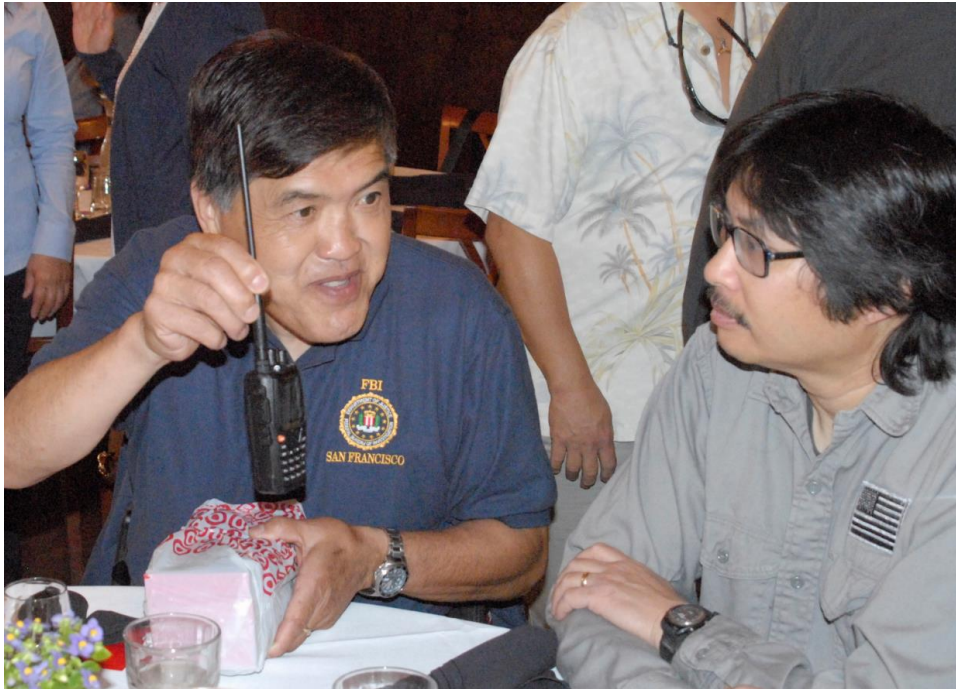
George Chong – W6BUR  
Vince Chinn (Mingie) – W6EE  
Bob Lai – KM6QP  
Gary Gin – KN6LV  
Gil Gin – KJ6HKD  
Rodney – KJ6DZI



Left to right: Gary – KN6LV, George – W6BUR and Mingie – W6EE

## **Silent Key – Part I (cont.)**

### Manfred Jang Memorial Luncheon



Left to right: Gil – KJ6HKD and Gary - KN6LV



Left to right: Mingie – W6EE and Bob KM6QP



Wedding Photo of both Frances Jang and Manfred Jang some 60 years ago

## **Silent Key - Part II**

### **Tony Halog – KR6EG (April 8, 1959 – August 6, 2015 )**

By Rodney Yee – KJ6DZI



Leonardo Anthony Aniceto Halog age 56 (April 8, 1959 – August 6, 2015) suddenly passed away at home from a massive heart attack

Most folks knew him by his handle: Tony - KR6EG.

Born in Livermore, California Tony spent most of his life in his favorite city: San Francisco.

Tony was an active member to the Master Mason in Phoenix Lodge #144 of San Francisco.

As a young man his zest for life lead to his interest in music, reading, traveling, target shooting, scuba diving, bowling, softball, martial arts (1st Dan Mah Kawai Tang Soo Do), Amateur Radio Operator (KR6EG), and an expansive knowledge of professional sports.

In 1997 Tony developed a vision impairment issue forcing him to retire from the IT department from the City of County of San Francisco. For those folks that

knew Tony, they could not help but admire his determination to not let his vision disability hold him back from moving forward to new challenges.

Back in March 1999, George - W6BUR and Mingie - W6EE remember meeting Tony for the first time as they proctored his HAM Technicians License test. He impressed both George and Mingie back then with his smarts and determination.

Tony became a lifelong time CARC member who served one term as CARC president in 2005.

He went on with his wife Connie, to do volunteer work with the City and County of San Francisco Auxiliary Communications Service. Giving back to the Bay Area community he loved so much loved. He inspired and earned the respect of all the folks that came in contact with him.

Tony is survived by his Mother, Connie his wife of ten years and many loving family relatives.

From CARC Editor Rodney Yee – KJ6DZI

About 4 years ago I met both Tony Halog and Connie Halog while attending the San Francisco Auxiliary Communications Service meetings. Tony and Connie would also attend our club Chinese New Year Luncheon and ARRL field days get together.

On Monday 8/17/2015 I attended the Funeral Services for Tony Halog at the Star of Sea Church. Well they say the measure of a person is not how many people show up at his wedding but at his funeral. Well I can report that well over 200 plus people attended Tony's funeral services to pay tribute to a very special man and to express their love for both Tony and Connie.

The funeral services were just amazingly well done and with a poignant tribute by the Presiding Priest: Father Charles Puthola. Father Puthola also stated that he had performed the wedding ceremony of Tony and Connie Halog in the very same church 10 years earlier. At the conclusion of the Church Services, a wonderful young woman singer sang the song: Amazing Grace such that there was not a dry eye in the Church.

Tony's kindness, love of life, generosity, patience, intelligence, leadership and mentoring is what drew people to him. His wife Connie has those same wonderful qualities and that is what brought them together and made them the perfect couple.

The long motorcade (50 plus cars) required 5 SFPD motorcycle officers to direct traffic as it wound by the home of Tony and Connie. Then it proceeded onto the Great Highway eventually reaching the final destination of the Italian Cemetery under a sunny clear blue sky.



The reception was held at Pasta Pomodoro, Bay Hill Shopping Center. The place was jammed packed with well-wishers to give the widow: Connie a loving hug.

Note from former CARC President: Ed Fong - WB6IQN

I met Tony back in the 1990's. Tony was a smart guy and over the years I could see his determination to live life to his fullest. I can't imagine myself going blind at middle age. How does one adjust? I know I would have a hard time. However, Tony was always upbeat. He continued doing volunteering work and if one did not know him, just listening to him on the air, one would never know he had a handicap. He would come to many of the Cathay events and won many of the raffle prizes. I would sadly miss him.

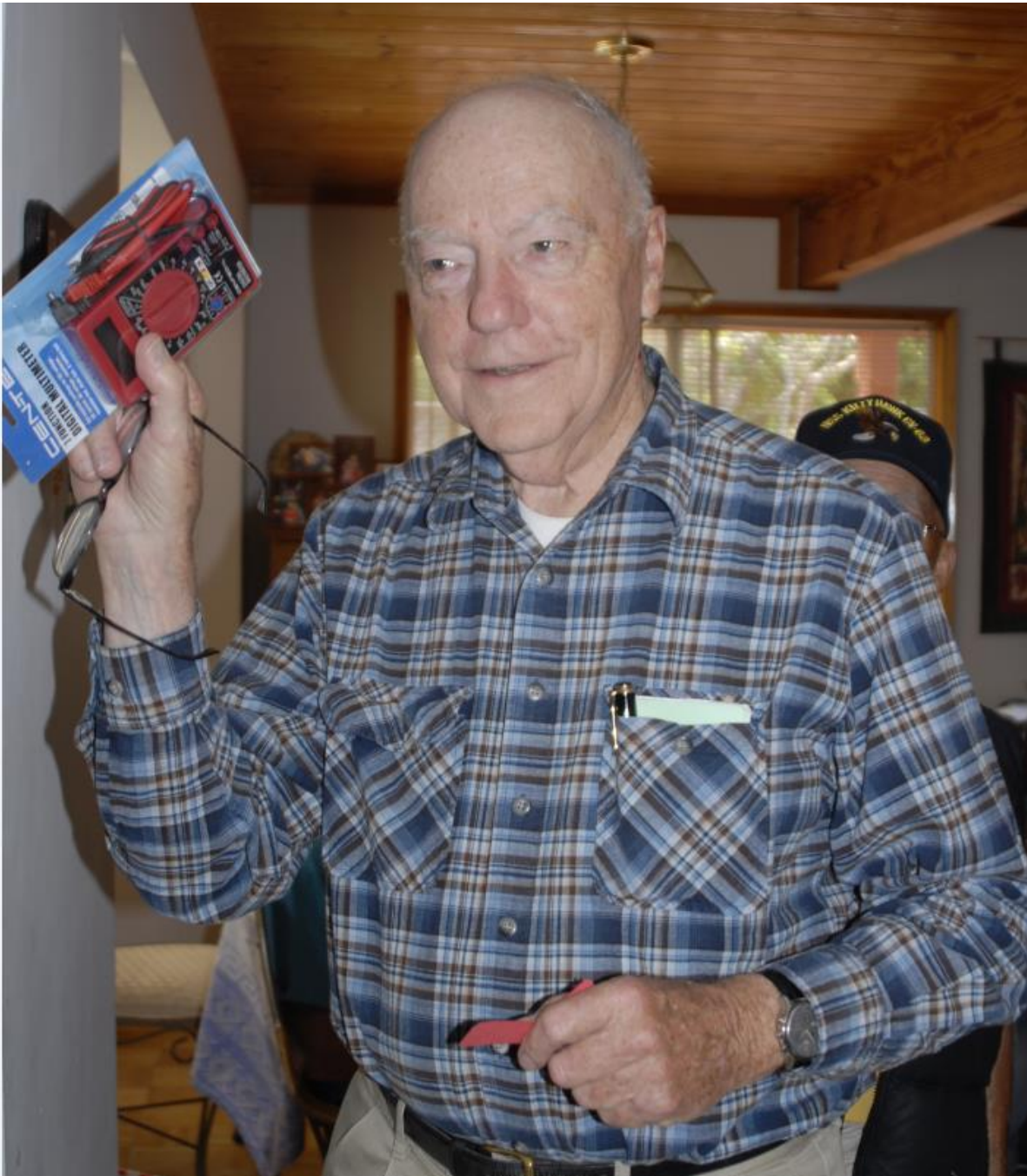
## HAM Tech Event Pictures



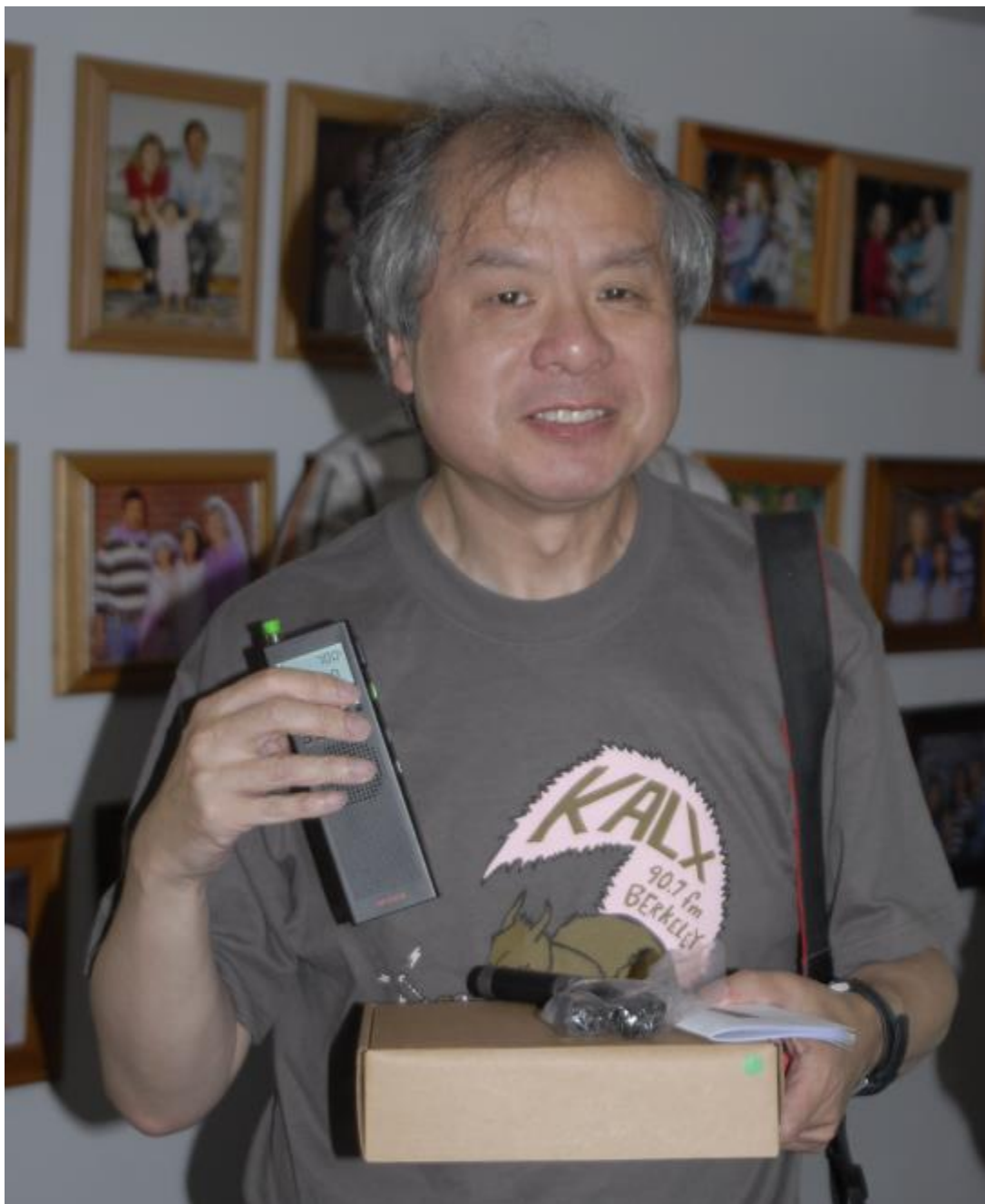
Left to right: George Hugh – W0WEB presenting the grand Prize and of course the Grand prize winner: Cliff Shak KH6IKL



Left to Right: Thomas Leibold - KK6FPP holding his newly won Baofeng UV5, and Edison Fong – WB6IQN having just presented the winning prize.



Grant Gauger, KJ6WGT holding his newly won Multi-Meter.



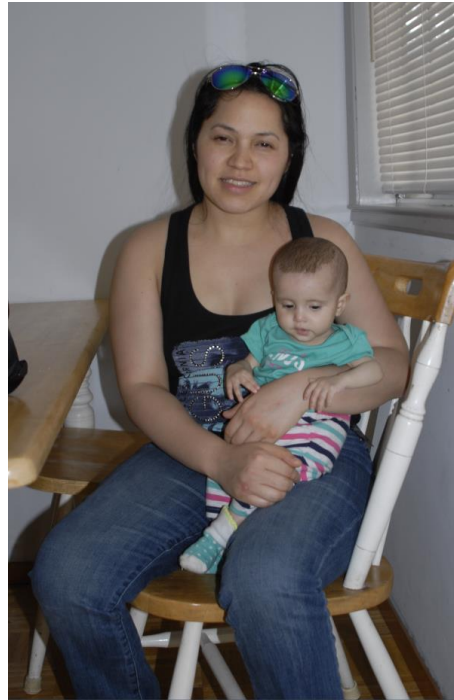
Ron Quan - KI6AZB, Author of (Build Your Transistor Radio) holding his newly won County Com GP5 software defined radio



Left to right: Edision Fong – WB6IQN presenting Bob Yee – W6VVQ with a multi-function pocket knife.



Left to right: Two pals mugging it up for the camera, George Chong – W6BUR and Grant Gauger, KJ6WGT



Xyl and child of Steve Kuryla – KK6FKD



Two tech session attendees soaking up the sun and relaxing



Left to right: Daughter and Son of Al Yee, Dr. Barry Thompson, Ron Quan - KI6AZB



Left to right: Lawrence, Thomas Leibod - KK6FPP and Steve Kuryla – KK6FKD



Left to right: Orville Jaygahar, Session Attendee, Cliff Shak – KH6IKL



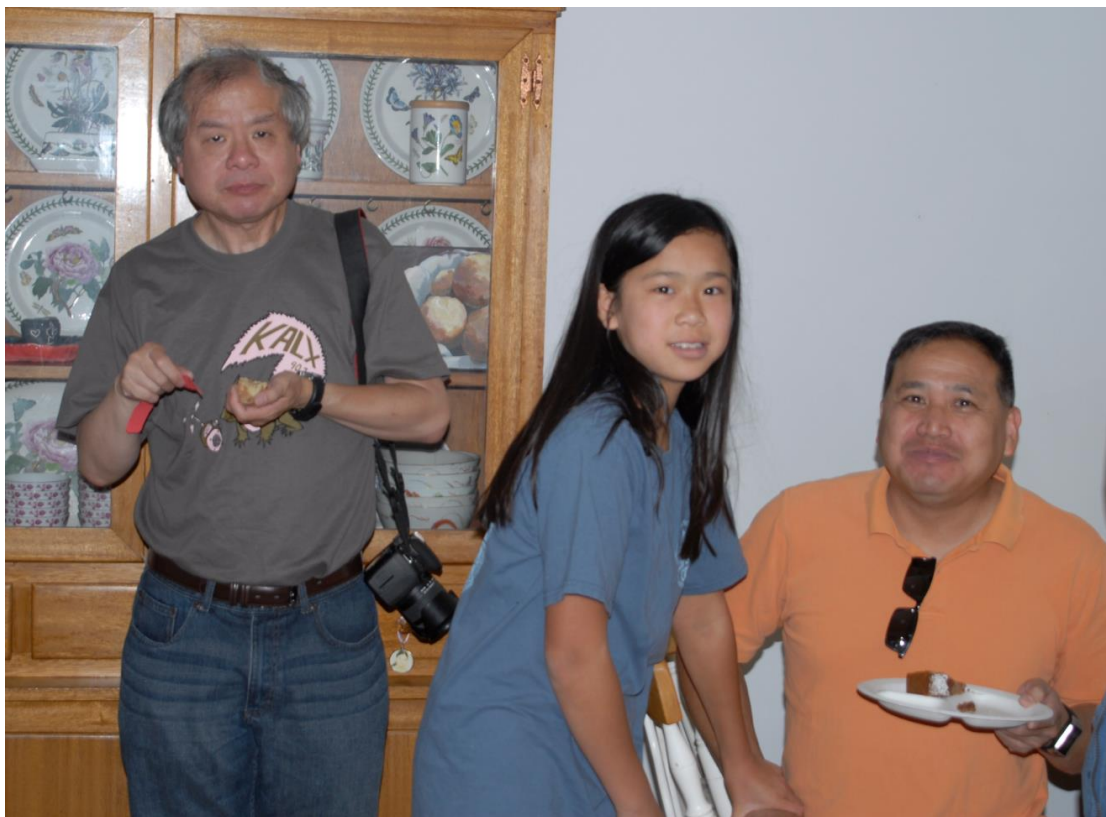
Left to right: Session Attendee and  
Orville Jaygahar



Bob Yee – W6VVQ



Left to right: Susan Fong (Ed's sister), Alexandra Hutchins (Jeff's daughter)  
and Jeff Hutchins



Left to right: Ron Quan - KI6AZB, daughter of Al Yee, and Al Yee



Left to right: Nick Cassarino –N6NSA, the President of County Comm and David Chan - NC6D



Left to right: xyl of Steve Kuryla, Steve Kuryla –KK6FKD and Thomas Leibold - KK6FPP



Crowd gathering around during raffle tickets drawing



Left to right: Ron Quan – KI6AZB, Kenneth, George Huges - W0WEB and Ed Fong – WB6IQN



Left to Right: Jeff Hutchins and Susan Fong (Sister of Ed Fong).



Left to Right: Ed Fong – WB6IQN congratulating the winner of the grand prize (Laptop) and a very happy Cliff Shak - KH6IKL.



Attendees listening To Ed Fong Tech Session presentation



Left to right: Al Yee, son of Al, Daughter of Al



Judy Chan, lovely xyl of David Chan - NC6D



Kenneth



Left to right: Mike Lechner of FARS - KN6QI and Dr. Barry Thompson - famous analog designer



Crowd listening to Ed Fong's Tech Session Lecture

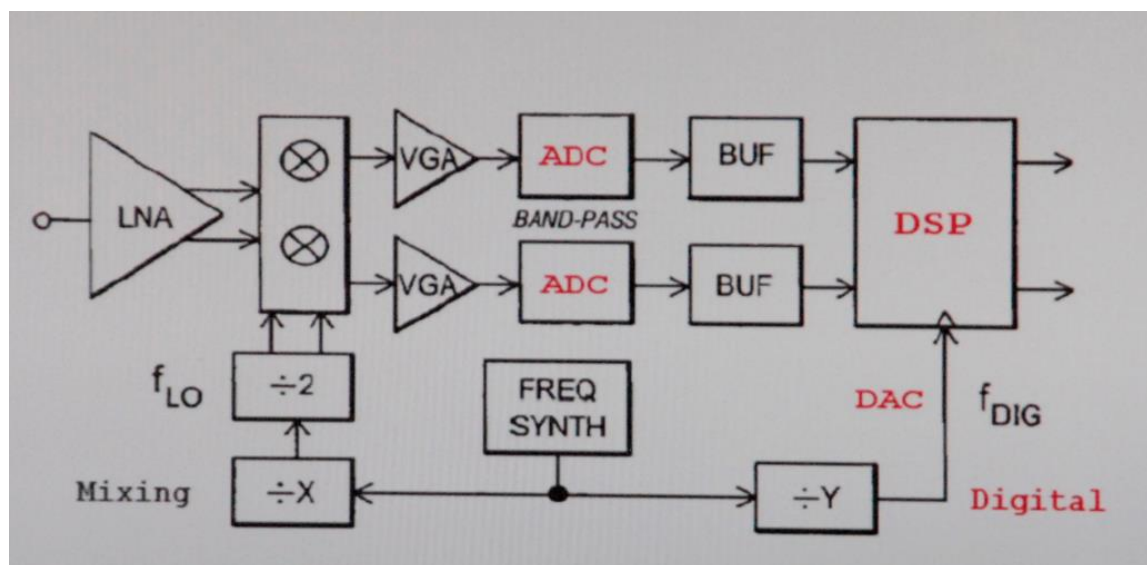


Complete set includes – radio, boost antenna, HF long wire antenna, ear piece, case and owners manual

Picture of GP5 Radio and included accessories

Tunes SSB with 10, 20 and 50 Hz resolution  
 High performance Ferrite antenna for AM and LW.  
 When in SSB – automatically selects HAM band  
 When in AM - automatically selects Internations SW bands  
 450 memories – 100 AM, 100 FM, 250 SW/HAM and 100 for scan storage  
 Has built in clock and temperature

GP5 Radio specifications.



Country Com GP5 Radio Description



# Si4730/31/34/35-D60

## BROADCAST AM/FM/SW/LW RADIO RECEIVER

### Features

- Worldwide FM band support (84–108 MHz)
- Worldwide AM band support (520–1710 kHz)
- SW band support (Si4734/35) (2.3–26.1 MHz)
- LW band support (Si4734/35) (153–279 kHz)
- Excellent real-world performance
- Integrated VCO
- Advanced AM/FM peak tuning
- Automatic frequency control (AFC)
- Automatic gain control (AGC)
- Digital FM stereo decoder
- Programmable de-emphasis
- Advanced Audio Processing
- Seven selectable AM channel filters
- AM/FM/SW/LW digital tuning
- EN55020 compliant
- No manual alignment necessary
- Programmable reference clock
- Adjustable soft mute control
- RD SPRBD S processor (Si4731/35)
- Digital audio out
- 2-wire and 3-wire control interface
- Integrated LDO regulator
- Wide range of ferrite loop sticks and air loop antennas supported
- QFN and SSOP packages
- RoHS compliant

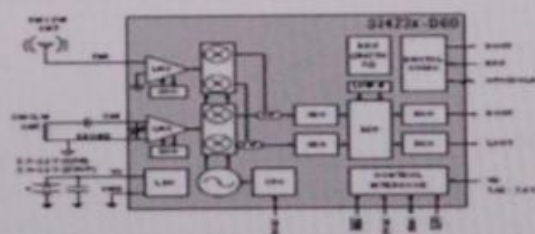
### Applications

- Table and portable radios
- Minisystem systems
- CD/DVD and Blu-ray players
- Stereo boom boxes
- Modules for consumer electronics
- Clock radios
- Mini HiFi and docking stations
- Entertainment systems

### Description

The Si473x-D60 digital CMOS AM/FM radio receiver IC integrates the complete broadcast tuner and receiver function from antenna input to digital audio output. The device leverages the Silicon Labs broadcast proven digital low-IF architecture, enabling a cost-effective, digital audio platform for consumer electronic applications with high TDMA noise immunity, superior radio performance, and high fidelity audio power amplification.

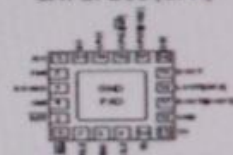
### Functional Block Diagram



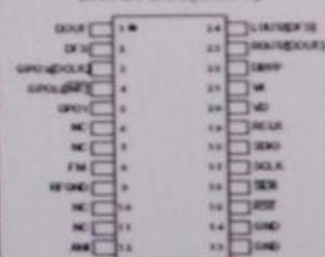
Ordering Information:  
See page 31

### Pin Assignments

#### Si473x-D60 (QFN)

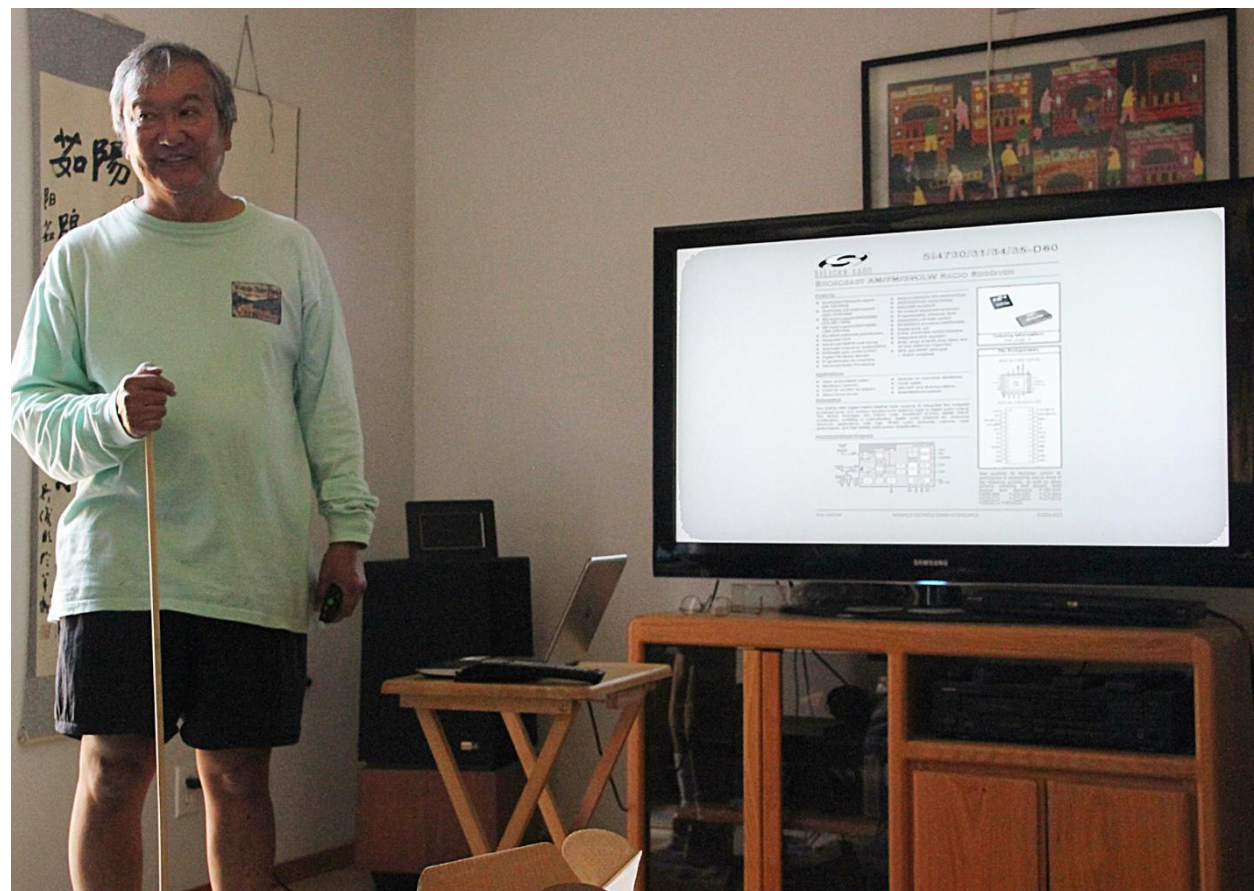


#### Si473x-D60 (SSOP)



This product, its features, and/or its architecture is covered by one or more of the following patents, as well as other patents, pending and issued, both foreign and domestic: 7,127,217; 7,272,373; 7,272,376; 7,321,324; 7,355,476; 7,426,376; 7,471,940; 7,339,503; 7,339,504.

Country Com GP5 Radio Description



Ed Fong – WB6IQN answering question about the design of the GP5 Radio

Picture courtesy of Ron Quan - KI6AZB