

P38



The **P 38** is a multi-mode HF data modem that gives you top performance operation using RTTY, AMTOR, P-Mode* and CLOVER-II waveforms. The **P 38** is a full sized plug-in card for PC-AT and faster personal computers. Multi-screen menu-driven HAL software is included with each **P 38** modem. Many popular "third-party" user programs are also available for the **P 38** - WORLI, WINLINK, WriteLog, XPWARE, EZTERM and RTTY by WF1B. The **P 38** is complete and ready to run. Plug in the board, connect three phono cables to your radio, and install the software. That's all there is to it! Whether you want to rag-chew, chase DX, or access electronic mail, the **P 38** is the modem of choice.

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modes including Baudot Teletype (RTTY), ASCII Teletype, AMTOR, SITOR, P-Mode*, and even HF hook it to your receiver's audio output and you're in business, even with modems that do not include "scope" output connectors.



*The word "P-Mode" is the HAL designation for a communications protocol that may be also known as "Pactor" a registered trademark of the Spezielle Communications System GmbH (SCS) firm in Hanau, Germany. HAL affirms that, to the best of its knowledge, "P-Mode" is compatible and interoperable with the protocol SCS calls "Pactor" and with the link establishment and weak signal modes of the protocol SCS calls "Pactor-II".



HAL COMMUNICATIONS CORP.

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RTTY Contest Schedule — Summer/Fall 2002

Date & Time	Contest	Date & Time	Contest	Contest Information Online
8/17 0000 to	SARTG	10/13 0000 to	NA Sprint	ARRL: http://www.arrl.org
8/18 1600	WW RTTY	10/13 0400		Jim's Gazette: http://www.n2hos.com/digital
8/24 1200 to	SCC RTTY	10/19 0000 to	JARTS	LA9HW Contest Calendar: http://home.online.no/~janalme/hammain.html
8/25 1200	Championship	10/20 2400	WW RTTY	SM3CER Contest Service: http://www.sk3bg.se/contest
9/28 0000 to	CQ/RJ WW	11/2 1200 to	Ukrainian DX	The New RTTY Journal: http://www.rttyjournal.com/contests
9/29 2400	RTTY DX	11/3 1200		

Dates and times subject to change.

OR — The New RTTY Journal will airmail a printed copy to you. For *each* contest, send \$3.00 for U.S., Canada, or Mexico destinations or \$4.00 to other countries. Please allow three weeks for processing and delivery.

George W. (Bill) Henry, K9GWT
Publisher and Editor

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The New RTTY Journal is a continuation of the magazine formerly known as RTTY, RTTY Journal, RTTY Digital Journal, Digital RTTY Journal, and Digital Journal.



Hits & Misses

Bill Henry, K9GWT
k9gwt@rttyjournal.com

It's summer and there's now one more Dayton Hamvention behind us. To the best of our accounting, this was the 25th "official" banquet at Dayton. The Saturday night dinner tradition was started in the mid-1980's by Dick Uhrmacher, K0VKH, and Jerry Trichter, WA1IUF — billed as a meeting of the HF RTTY MSO (mailbox) users and operators. At that time, there were two mailbox "factions" — Dick's group at 14.0877 MHz and Jerry's at 14.0975 MHz. This was a friendly rivalry and the two groups always met at Dayton to compare notes. I recall several very enjoyable late-hour gatherings in Jerry's Room at the old Imperial House Motel. The Saturday night dinner group soon grew to include everyone in RTTY, not just HF mailbox enthusiasts. Since 1987, we've had an "official" RTTY Journal Banquet on Saturday night at every Dayton Hamvention.

About 15 years ago, Ron Stailey, K5DJ, and a group of RTTY DX and Contest hounds started meeting at a Dayton steakhouse on Friday night of the hamvention weekend. This gathering also grew and eventually became part of the RTTY Journal-sponsored events at Dayton. In recent years, we've run into scheduling conflicts with other DX and Contest banquets that were also held on Friday night. Also, putting on two banquets was getting to be expensive for the attendees and a lot of work for the staff. This year, we combined the two dinners into one gala event on Saturday. I think it worked out very well for all of us. We should thank Dale Sinner, W6IWO, and Joe Wittmer, K9SZ (was KB9SIZ), for all of the work they put into the dinner this year. Also, thank you Doug Faunt, N6TQS, for your slide presentation about the many unusual DX locations you've worked recently. Good job, guys!

This issue of the RTTY Journal is fatter than usual because of all of the great photos Jason Allen took during the Dayton weekend. These pictures and a few more may also be found on the RTTY Journal web page if you want to pick-up your own digital copy. Good job, Jason.

The RTTY Forum was SRO (Standing Room Only) — again! Frank Fallon, N2FF, put together a fine panel of experts who discussed the "how-to's" of running a contest as SO2R (Single Operator, Two Radios). Featured speakers were Don, AA5AU, Tyler, K3MM, Jerry, NO2T, and John, WA9ALS. This was another very good turn out for the RTTY crowd.

One more item about the Dayton weekend: This was our first year at the Howard Johnson Express hotel. The room price and the banquet ticket were a lot less expensive than in recent years. Also, the drive to and from Hara Arena was very short compared to the 30 to 60 minute journey we had been making to the Holiday Inn. Thanks to Dale, the buses actually came to the hotel (close at least) for the first time in years. I'd like to hear what you thought of the hotel and the arrangements in general. Because advance reservations are required very early, we are planning to return to "Ho-Jo's" next year unless I receive several strong objections. Write and let me know what you liked and didn't like.

You'll also find part two of Dale Sinner's RTTY Scope article in this issue, including photos of his finished gadget. Dale sure does nice work, doesn't he? One of the goals for this series is to encourage more home-construction. Is anyone else making his/her own scope? Do you need any more information? Do you have any other construction project in the works? If so, we'd sure like to publish an article about it

Our biographical feature this month is about Bob Meyer, K9IO. Bob has been coming to Dayton for years and we know him from those gatherings and for his strong involvement in RTTY DX. Finally, we also have the results for the 2002 CQ/RTTY Journal WPX Contest.

That's it until this fall. Enjoy.

— 73 de Bill, K9GWT



RTTY Scope — Part II

Dale Sinner, W6IWO
dsinner@rttyjournal.com

In my last article I laid out the circuit on a bread-board to make sure it worked okay. After some tuning of the circuit which I will cover in this article, you now see the finished product. My thanks to Bill Henry, K9GWT, for his help with the circuitry and power supply writeup. The filter unit shown in Fig. 7 on page 7 of the last issue (Vol. 50, No.1) is different from the one I used. I had the filter unit already built from another project and so I just used it in the interest of saving time. However, the filter unit shown in Fig 7 is the one I will be using in my next project which will be the two tube RTTY tuner. If you build the circuit you will find this latest filter circuit is much better and will give sharper ellipses on the CRT. More on this later.

To finish this project I had to come up with a suitable enclosure. I found one at a reasonable price from Charles Byers, K3IWK, 5120 Harmony Grove Ed, Dover, PA 17315. His telephone number is (717) 292-4901 and his Email address is k3iwk@flash.net. He has a charge of \$34.95 plus \$7.95 for S/H per cabinet. The cabinet is listed under 2 piece cabinets in his online catalog at www.flash.net/~k3iwk. If you order this cabinet, please refer him to my specs which he has on file. He does not have this particular cabinet in stock but will make it up as needed. Once the cabinet was secured, I installed rails on each side so I would have a way to attach the top cover. Please refer to Fig. 1.

Referring to my first article and Fig. 1 of this article you will notice I altered the installation of some of the tuning pots and also condensed the size of each circuit board. I left three controls on the electronics board because once they are set, they will not change. Those pots are focus, intensity, and astig. The two positioning controls and the gain controls have been relocated to the front panel. Again you can see them in Fig. 1 on the left and in Fig. 3. I tried to keep the cabinet size to a minimum and so placement of the boards is somewhat critical. The black strip on the electronics board is some tape I used to keep from shorting out the board on the cover. I have since bent the board inward and it now easily clears. In Fig. 2 you see the back side of the

electronics board showing the two PC board terminals (Radio Shack 276-1388) where I terminated all the out going lines and incoming voltages. The two transformers were stacked and epoxied to the chassis but my first try failed. Hi! Second try is holding. The power supply board is then mounted at the rear of the chassis. On the back panel I have mounted the filter board. The filter board is a 3" X 3" perf board but could be smaller. The unit is built so that either mark and space tones from your modem can be used or take the audio straight from the radio. If you build this circuit it is suggested that the two 165,000 1% resistors be changed to 301,000 1%. This will improve the ellipses on the screen to a sharper pattern. I am including a couple of other pictures to complement this article and give you a good idea of how easy it was to build this unit. See Figs. 3 and 4.

The CRT shield was a surplus piece I had in my junk box but one can be fashioned from a

coffee can or something similar. The CRT tube bezel is the one used by Heath years ago but here again one can be fashioned. Actually no bezel or tube screen is really needed. But since I had one, I used it. Maybe you have a CRT but not the socket for it. Take an old tube socket and break it open and use the pin connections for the CRT. You do not need a socket per say just a way to hold the wires to the tube. Of course it goes without saying, once you have used this method, keep your hands away from the wires if they have not been properly insulated. There are some very high voltages at this point. Use shrink-tubing or electrical tape to insulate these terminals.

The scope electronics work fine and don't require any particular tuning. As a precaution I used a wire with heavier insulation for the high voltage line to the CRT. The filter circuit will need to be tuned but this can be easily done. If you are using a modem take the AFSK output and apply it to the Rcvr input audio terminal. You will need to be able to key between Mark and Space to make this adjustment. Once Mark is injected simply turn the R10 pot for a screen pattern. Then adjust the Mark positioning and gain pots on the scope for the proper pattern. Once this is done, do the same with the Space tone adjusting R20 and the Space positioning and gain controls. Going back and forth a few times and you will have it working just as good as mine. One other thing I did and I guess I'm old fashioned but I by passed the AC line as they



Figure 1



Figure 2



Figure 3

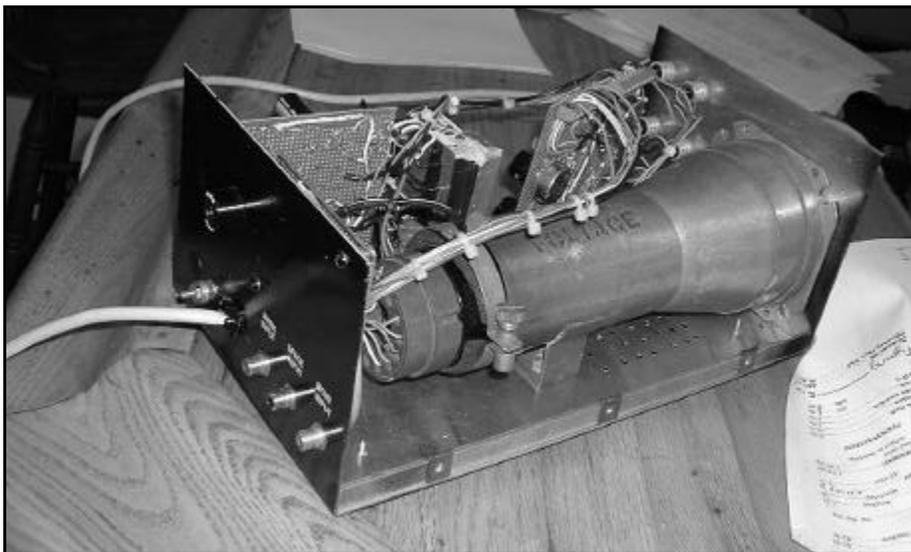


Figure 4

enter the cabinet with .01uf high voltage 1kv capacitors.

Well there you have it. It was a fun project and if you tackle it, I'm sure you will enjoy the fruits of your labor. My next project will be the same type circuit except I'll be using two 12AX7s instead of the two TIP 50 transistors.

— 73, Dale S. Sinner, W6IWO

RTTY Journal
ARCHIVE DISCS

All RTTY Journal issues, from 1953 to 1997, are available on CD-ROMs. Buy the whole set of eight discs for just \$100 (a savings of \$20), or you may purchase each archive disc individually for \$15 (\$20 each for non-subscribers).

See the enclosed form for details on ordering.

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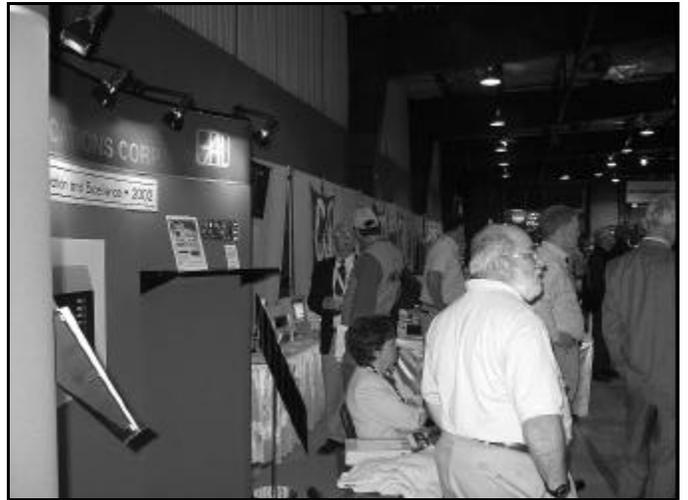
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2002 Dayton Hamvention



Thursday Night Gathering

2002 Dayton Hamvention



Friday at Hara Arena

2002 Dayton Hamvention



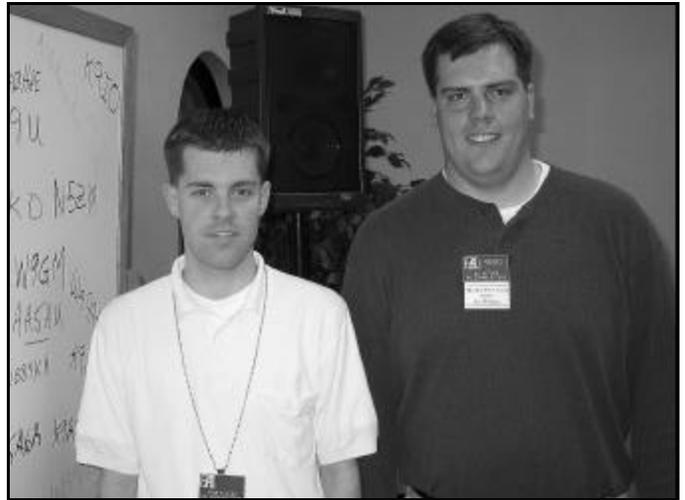
Friday Night Gathering

2002 Dayton Hamvention



Bob Wachtel
W6RPT

Jim Coleman
KA6A



Jason Allen

Joe Wittmer
K9SZ



Friday night gathering.



Stan Dworak
W3TTY

Bill Boeckenhaupt
AK0A



Crawford MacKeand
WA3ZKZ

Waldemar Kesch
DK3VN

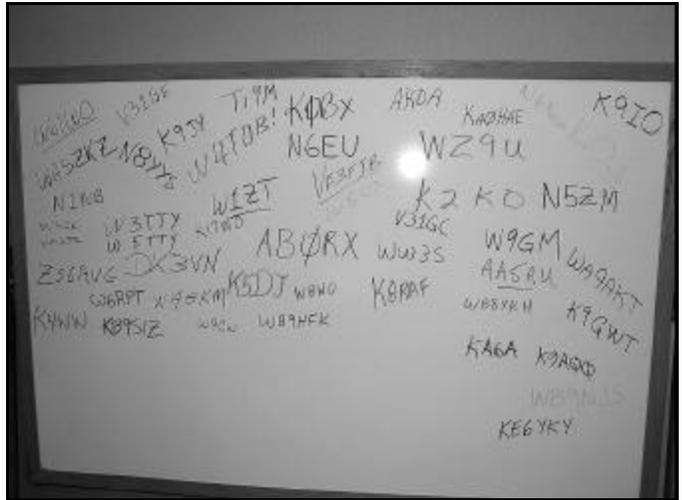


Friday night gathering.

2002 Dayton Hamvention



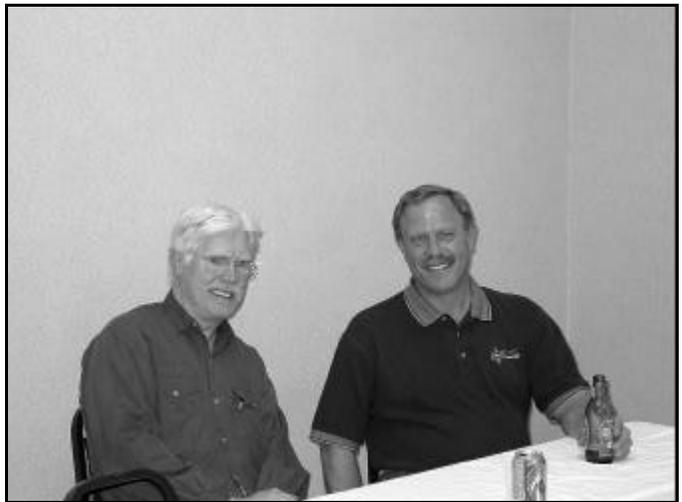
Ralph Irish W8ROI Arthur Cohen XE1LL Luz Cohen XYL of XE1LL Dale Sinner W6IWO



There were quite a few people at the gathering on Friday night.



Mark Prather WB9HFK Joe Wittmer K9SZ



Friday night gathering.



Friday night gathering.



Friday night gathering.

2002 Dayton Hamvention



Frank Fallon, N2FF, was the moderator for the RTTY Forum on Saturday.



Jerry Jankowitz
NO2T

Tyler Stewart
K3MM

Don Hill
AA5AU



There was a large crowd at the RTTY forum.



Frank Fallon, N2FF, gets the RTTY forum underway.



More of the crowd at the RTTY forum.



Harry Coleman
K9AQQ

Bob Wachtel
W6RPT

Jim Coleman
KA6A

2002 Dayton Hamvention



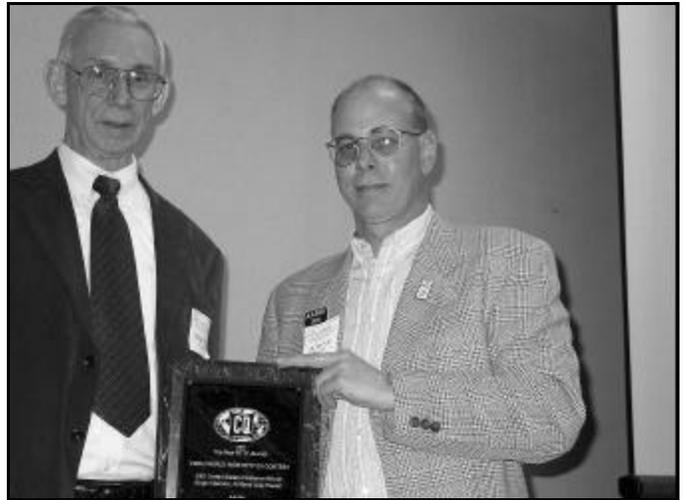
Saturday Night Dinner

2002 Dayton Hamvention



Tyler Stewart
K3MM

Joe Wittmer
K9SZ



Bill Henry
K9GWT

Don Hill
AA5AU



Bill Henry
K9GWT

Mike Sims
K4GMH



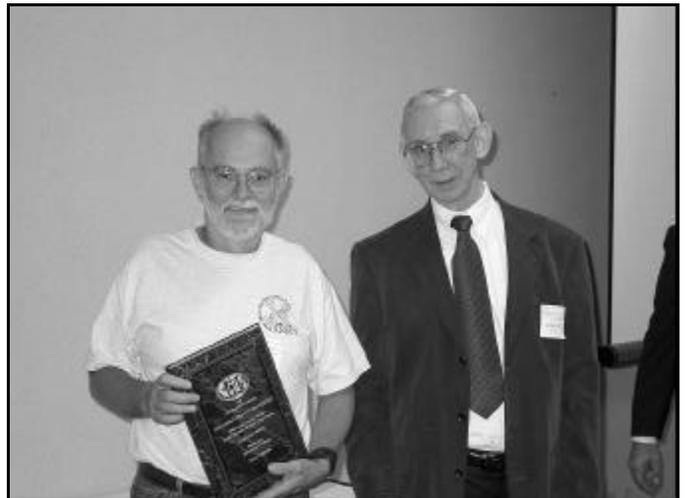
Bill Henry
K9GWT

George Johnson
W1ZT



Bill Henry
K9GWT

Don Hill
AA5AU



Doug Faunt
N6TQS

Bill Henry
K9GWT

2002 Dayton Hamvention



**Joe Wittmer
K9SZ** **David Plaskett
ZS6RVG**



**Radhames Bonilla, HI3AB (front); and
Joe Wittmer, K9SZ (back).**



**Waldemar Kepsch, DK3VN (front); and
Joe Wittmer, K9SZ (back).**



**Ron Stailey Joe Wittmer
K5DJ K9SZ**



**Nick Smith Joe Wittmer
W4GKM K9SZ**



**Doug Faunt (center, standing), N6TQS, was
the speaker at the dinner.**



Bob Meyer, K9IO

The 1960's...

My interest in Amateur Radio started at an early age while I was a Boy Scout. The local radio club came to a Scout Troop meeting and demonstrated mobile amateur radio. I was hooked! Not old enough to drive yet, I still was fascinated by the ability to communicate with cars driving around town. So in 1961 I studied for the Novice Class license and contacted a local ham that was willing to help me study and give me the exam. In those days General Class licensees could administer the Novice/Technician Exams only and return it to the FCC for grading. So before I was out of High School I was licensed as WN9AKT. The early Novice license allowed you to use only 75 watts with a crystal-controlled transmitter.

Before getting out of High School I was WA9AKT with a Technician Class license. A High School friend of mine was also licensed and together we would double date on a Saturday night. He also had his Technician License and we would work 6-meter DX from the local drive-in movie theater while our dates were at the concession-stand. Those were great times working into central and south America on 6-meters which at the time was good 6-meter DX from a mobile. That friend of mine is Larry, then WA9JCO and now K9KU. We are still the best of friends and often talk on Sunday mornings on 20 meter SSB.

While attended college at the Milwaukee School of Engineering, I was exposed for the

first time to RTTY. The club station, still active today, was W9HHX. At the time, this station was state-of-art. The club had a Central Electronics 100V transmitter, a 75A-4 Collins receiver, a homebrew kilowatt amplifier, a Model 15 teletype machine with a homebrew TU. The antenna was on top of a five story building and there was nothing this station couldn't work with that equipment. As a rookie member of the club and a Freshman in college, I was volunteered to be one of the loggers for a weekend RTTY contest. As I sat there logging for one of the more experienced upper-classman during the RTTY contest, I started to wonder what this RTTY mode was all about. Before long, I had my General Class license and was showing up early in the morning at the club station to work RTTY DX.

The 1970's...

After college I entered the military and was soon assigned to a computer maintenance school in New Jersey. Fort Monmouth, New Jersey had one of the best equipped, thanks to the tax payers, Amateur Radio stations in the world. Housed in a completely separate building this Amateur Radio Communications Center contained 6 individual operating rooms each equipped with a complete Collins S-Line. Remember the S-Line? Legacy equipment at a historic station, K2USA. I spend many off-duty hours operating all modes from this unbelievable station. With beams antennas at 100 feet, long-wire antennas also up 100, this station worked the world!

When I served a year of duty in South Vietnam, I would often call home via one of the many MARS stations. In order to make a call home you would have to register with the MARS station operator. Often I would introduce myself as Sergeant Bob Meyer, WA9AKT. Many of the MARS operators were also Hams and after I introduced myself, they would actually let me sit at the controls and make the contact back home myself. Those MARS stations were not allowed to call CQ or issue QSL cards during the war days. But never-the-less it was fun to sit at the controls of a Collins S-Line in Vietnam!

In the late 1970's I started RTTY Contesting. In those days the major RTTY contests were the BARTG, SARTG and CARTG. The British, Scandinavian and Canadian Amateur Radio Teletype Groups were the three major RTTY Contests back in the late 70's and early 80's. Up until 1980, I was using the Drake B-Line (T4XB and R4B), the Heathkit SB-220, HAL ST-5 and a Model 15 Printer. With that equipment and a total of only 300 or 400 QSOs in any one of the three contests, I could usually win the certificate for the 9th Call Area. Of course, all logged was done by hand and the house always smelled of Model 15 oil for a week after the contest. It sure was fun...

The 1980's...

Lots of changes during this decade. My wife, Kathy and I were "trying" to raise two kids, keep up with the demands of a family and work while trying to maintain a house in the suburbs, I now had the Advanced Class license and my station also changed. I was now using the IRL FSK-1000 Video TU with the Info Tech Model 300C keyboard. All digital and all video. No more oil smell after contesting all weekend! Because of family commitments, I stopped contesting in the mid-80's but continued to work RTTY DX whenever I could. My RTTY DXCC totals started to grow. I also joined the local Chicago area DX Club, the Northern Illinois DX Association (NIDXA) and I am still a member today. (Where did these 10 years go?)

The 1990's...

With our kids in High School, the demands of raising two small children started to fade. In 1990 at the Dayton RTTY Dinner I managed to win the main prize, the HAL PCI-3000 TU. This state-of-the-art video terminal installs inside a desktop PC and has provided outstanding performance. It can pick the weak ones out of noise filled band and was worked flawlessly for over ten years. It is still in use today! While my daughter, Amie, was still in

High School she showed an interest in the hobby and soon became KA9WLJ. When I passed the Extra Class exam and became K9IO, Amie applied for and received my old call WA9AKT. So my original, first issue Novice call (WN9AKT now WA9AKT) will remain with a family member.

In 1995 I joined several other active RTTY'ers and we operated the ARRL RTTY contest as J68BU from the island country of St. Lucia. That was sure fun! After the RTTY contest we had time to operate on other modes. The European pileup on 75-80 meters for St Lucia were unbelievable. I would work one station after another for as long as the propagation would hold. This was my one short taste of actually being DX myself!

In the Fall of 2002 I will celebrate 41 years in Ham Radio. Where did that time go! I have been attending the Dayton Hamvention for over 25 years and have been lucky enough to make very RTTY dinner during my visits to Dayton. Always enjoy spending time with the RTTY gang. For the 2002 Dayton Hamvention I brought along my daughter Amie, WA9AKT. She recently spent a Sunday afternoon with me working the RTTY DX. Kathy and I also have a son living in Florida after graduating from college in St Augustine. Bryan has decided to live in

Florida and we sure enjoy visiting him during the cold Winter months. I can also operate as portable 4 while we are there.

I am still very active on RTTY and continue to chase the DX. My totals are in the 290's and the goal, of course, is RTTY DXCC Honor Roll. This is a very challenging goal because working DX from the heart of the mid-west also presents unique propagation difficulties. Kathy and I hope to retire within the next few years and it will be time for us to do some serious traveling.

73 for now and see all of you in the RTTY pileups!

The "Brag" sheet (I think I use to have a "brag tape"):

- Cover picture on the October 1981 RTTY Journal
- Cover picture and DX'er of the Month on the May/June 1990 RTTY Journal (contains a short article and may provide more/different information.)
- Cover picture Summer 2001 RTTY Journal

Bob Meyer K9IO
(Ex-WA9AKT from 1961-1997)
400 Briar Place
Libertyville, IL 60048-332

Current station:

Kenwood TS-850S/AT
Alpha 86 Amplifier
Hal PCI-3000 RTTY Terminal
Two Compaq Deskpro 386S Computers (one is used for RTTY with the PCI-3000, one is used for the Chicago Area DX Packet Cluster).
Kenwood TM-221A - 144 mhz Transceiver (Two meter Repeaters)
Kenwood TM-321A - 220 mhz Transceiver (DX Cluster Link)
Antennas: Wilson System One 4-Element Tribander at 65 feet, 40-80 Sloper by W9INN, WARC Band Dipole by W9INN

The First 9th Call Area RTTY Worked All Zones Award (WAZ)
DX Awards - DXCC RTTY-SSB-CW and WAZ RTTY-SSB-CW
DXCC Mixed Honor Roll (Missing only VU Nicobar/Andaman)
RTTY totals - 292 worked with 286 confirmed!

2002 CQ/RJ Worldwide WPX Contest Results

February 9-10, 2002

10 Meters

Callsign	Qs	Points	WPX	Score
RN6BN	882	2157	454	979278
S50C	772	1979	395	781705
KK5OQ	732	1881	395	742995
UA1AKC	725	1830	387	708210
EO1I	759	1857	381	707517
N4BP	703	1735	394	683590
LU8EKC	615	1825	370	675250
NT6K	704	1601	380	608380
DL4MCF	621	1604	376	603104
LW8EXF	567	1679	340	570860
RA0ALM	607	1645	320	526400
HG5C	555	1451	352	510752
LZ4KAC	519	1346	325	437450
KH6ND	517	1544	272	419968
PY5XT	449	1332	306	407592
2E0ROB	486	1264	322	407008
VR2BG	485	1321	290	383090
WM9G	438	1148	282	323736
A45XR	400	1170	246	287820
VE1AOE	427	1103	258	284574
YV5AAX	335	989	244	241316
JA7EMH	341	946	244	230824
JA1SJV	331	923	243	224289
HK6PIJ	323	965	218	210370
GI4KSH	335	846	245	207270
HA3JB	329	849	236	200364
LZ2JA	305	783	225	176175
JK1IQK	283	784	210	164640
KF2XF	286	717	223	159891
RV3APM	218	536	186	99696
OK1ACF	210	575	172	98900
DK9XB	213	553	177	97881
VK4WPX	205	608	152	92416
OK2PMS	194	520	155	80600
AN7AIG	198	446	156	65116

JA1BUI	160	450	138	62100
SP9W	167	446	136	60656
HA1WD	160	432	131	56592
UA9QFF	132	370	118	43660
K3KO	129	367	102	37434
ER3KS	134	351	93	32643
IK1TWC	109	294	97	28518
LA9DK	110	277	98	27146
OH7JTT	104	242	86	20812
LU/N5KO	85	243	71	17253
9A4K	43	118	40	4720
LA1ZFA	11	33	11	363
7M4POL	9	26	9	234
YO6BHN	3	8	3	24

Operators:
EO1I: UT1IA
KH6ND: KH7R

15 Meters

Callsign	Qs	Points	WPX	Score
5U8B	1297	3879	492	1908468
9A5W	975	2510	498	1249980
RA1ACJ	929	2289	453	1036917
S57IIO	855	2180	472	1028960
SP5GRM	760	1973	442	872066
AH6OZ	728	2173	389	845297
CN8KD	722	2161	361	780121
EU1MM	719	1744	399	695856
ON7UI	675	1710	390	666900
HA3LI	670	1697	390	661830
ZC4DW	577	1667	321	535107
EC2ADR	616	1447	361	522367
UA0JQ	563	1454	355	516170
F5NZO	524	1342	336	450912
RF4R	550	1263	330	416790
KY4AA	495	1221	321	391941

UZ4E	484	1145	313	358385
RW9SW	395	1105	260	287300
RU0BB	378	988	258	254904
I2ZZZ	367	937	268	251116
JE1GMM	335	922	249	229578
EA4OI	395	910	244	222040
JR3RIY	279	770	225	173250
W4LC	293	708	233	164964
UA6ADC	294	677	241	163157
SP9BBH	293	732	212	155184
ON4AME	253	633	189	119637
S52SK	223	553	178	98434
VA7SW	251	597	164	97908
ON4VV	186	463	161	74543
UT0H	159	366	134	49044
DL6EDD	154	367	131	48077
K9NU	133	329	110	36190
DK2GZ	111	284	106	30104
OK2SG	115	279	105	29295
VE6JY	58	154	56	8624
VE2OWL	39	90	37	3330

Operators:
5U8B: I2UIY
RF4R: UA4RC
KY4AA: K4WW

20 Meters

Callsign	Qs	Points	WPX	Score
9A7R	777	1889	404	763156
LV5V	612	1818	353	641754
YL7A	637	1547	357	552279
SN4G	580	1365	329	449085
UX0DL	524	1226	328	402128
UA9CKP	473	1327	302	400754
IK2DPP	463	1060	296	313760
EU1SA	483	1081	287	310247

2002 CQ/RJ Worldwide WPX Contest Results (Cont.)

February 9-10, 2002

AH7R	339	1012	242	244904
OK2WH	385	854	255	217770
F6FJE	404	855	252	215460
OH2LU	349	810	250	202500
ES4RD	357	811	239	193829
W7TI	379	771	250	192750
UA3LEO	333	730	238	173740
UX3MR	311	701	236	165436
SM3LBP	323	725	223	161675
RU0AB	287	763	210	160230
SV1CER	293	639	208	132912
US7IS	258	567	186	105462
7K4QOK	210	565	184	103960
UR5NX	255	533	181	96473
I4DOO	190	431	165	71115
ON4APU	110	245	99	24255
VA3XRZ	111	244	92	22448
PR7AR	90	264	77	20328
VU3KPL	87	231	82	18942
VA7BM	87	181	74	13394

Operators:
LV5V: LU5VV
SN4G: SP4MPG

40 Meters

Callsgn	Qs	Points	WPX	Score
9A6A	537	2484	311	772524
RK6BZ	451	2002	280	560560
UX1IL	362	1542	227	350034
UR5FFC	292	1254	210	263340
UW2F	275	1162	196	227752
AN3GIP	245	1074	188	201912
IK3SSJ	254	1054	184	193936
SM7BHM	208	876	152	133152
KH7U	159	946	112	105952
W3SE	211	710	137	97270
DL9NEI	101	386	85	32810
UR8QR	49	202	47	9494
JH1APZ	38	190	36	6840

Operators:
UW2F: UT0FT
AN3GIP: EA3GIP

80 Meters

Callsgn	Qs	Points	WPX	Score
S54E	397	1700	246	418200
S51DX	328	1346	189	254394
S59CAB	268	1126	176	198176
OK2CLW	272	1084	177	191868
EU1AZ	235	960	156	149760
U75NM	238	950	155	147250
DJ3WJ	160	620	120	74400
T95DVG	144	588	112	65856
DL2RUG	142	544	114	62016
YL2KF	103	426	90	38340

SOAB Low

Callsgn	Qs	Points	WPX	Score
ZX2B	1230	3695	499	1843805
AA5AU	1473	3500	486	1701000
VP5JM	1242	3475	439	1525525
N2WK	1199	3110	455	1415050
RU3QW	1135	2945	413	1216285
RA3WA	1011	2855	411	1173405
OP0GS	971	2708	417	1129236
YU7AM	943	2792	399	1114008
VE4COZ	1014	2600	413	1073800
HA5BSW	922	2701	396	1069596
K9MOT	1030	2475	431	1066725
UY8IF	1051	2693	391	1052963
YL4U	931	2520	411	1035720
YQ3APJ	860	2730	378	1031940
TM6A	905	2456	403	989768
ON4ADZ	891	2543	387	984141
IK4JSI	867	2492	394	981848
DK3VN	865	2550	380	969000
WA1EHK	847	2210	400	884000
RG9O	861	2579	342	882018
LZ2PI	849	2491	342	851922
GZ5CP	735	2632	320	842240
G0URR	803	2070	403	834210
UW5U	843	2314	356	823784
VE6YR	832	2153	370	796610
DL7VOG	770	2142	366	783972

YU8/S57AW	804	2341	334	781894
N9CK	865	2022	382	772404
W9HLY	817	2056	372	764832
EA8/DJ1OJ	656	2282	326	743932
UT2UZ	781	1890	385	727650
ES1QV	806	2085	343	715155
KI6DY/0	923	1985	353	700705
JM1LPN	696	1914	361	690954
HA9OA	685	2023	334	675682
OH4BB	740	1973	336	662928
SM5UFB	739	1982	334	661988
W4UEF	727	1957	328	641896
RA9DA	654	2077	308	639716
N6OJ	838	1771	357	632247
VE3WQ	685	1982	318	630276
AM4CI	784	1863	338	629694
JS1OYN	655	1822	335	610370
G4WFF	691	1872	323	604656
KE4KWE	748	1721	350	602350
ON4CHT	618	1771	340	602140
RA9XF	620	1892	315	595980
VE6RAJ	696	1870	318	594660
RX9JM	602	1925	298	573650
UA4FCO	694	1813	315	571095
N9SDL	706	1660	340	564400
RW3LB	648	1861	302	562022
RA4CTR	721	1805	307	554135
AK0A	741	1613	331	533903
W3MEL	700	1689	313	528657
JI6HKJ	591	1597	321	512637
EI4DW	589	1566	326	510516
WD4GBW	616	1657	301	498757
PA3EMN	593	1570	311	488270
N1NB	562	1550	297	460350
EA2AOI	550	1561	294	458934
UT4EO	575	1578	284	448152
NK5A	663	1435	309	443415
KE5OG	723	1416	312	441792
K8RS	574	1472	300	441600
ES2NA	598	1521	289	439569
RA9FRD	492	1673	260	434980
JABJCR	534	1427	304	433808
W8UL	556	1454	298	433292
DK3GI	513	1462	294	429828
AD1C	525	1355	317	429535
7L4IOU	496	1480	283	418840
4K6DI	494	1532	272	416704
KE7NT	696	1355	305	413275
SM6BSK	480	1431	287	410697
KL7AC	649	1491	274	408534
K0IDT	661	1413	286	404118
EA7GTF	530	1405	286	401830
YL/RZ3BY	463	1465	266	389690
YO8RFS	530	1523	254	386842
K8VT	604	1394	277	386138
UA3SAQ	498	1195	313	374035
GU0SUP	419	1095	339	371205
4X6UO	474	1394	266	370804
VE3IAY	505	1445	250	361250
VK4DZ	444	1318	266	350588
JA1XRH	463	1287	272	350064
9A3CY	430	1340	261	349740
AC6JT	671	1332	260	346320
KA2D	469	1198	283	339034
OK2PEF	504	1334	253	337502
AC0M	485	1150	290	333500
4X6UU	417	1504	221	332384
CT3KN	394	1363	243	331209
ES1BH	465	1284	245	314580
VA3PC	454	1219	253	308407
UZ7HO	510	1326	231	306306
W1TO	463	1212	251	304212
I1BAY	447	1290	234	301860
UA4FX	495	1182	254	300228
SP6IHE	397	1211	247	299117
LY2SA	403	1173	253	296769
DM5GI	440	1267	230	291410
UT9NA	407	1188	229	272052
LZ9R	441	1026	264	270864
SP8FHJ	384	1185	225	266625
LA7CL	406	1067	247	263549
OK1OX	395	1085	239	259315
YL2NN	299	1274	200	254800
DL2AL	395	1097	232	254504
4X1RF	355	1122	226	253572
ND6E	495	1012	250	253000

DL4MFP	368	1125	223	250875
K8SIA	442	1007	249	250743
SP9CQ	372	1072	233	249776
N1MGO	449	990	250	247500
WA2EYA	461	1011	244	246684
G0MTN	418	1042	232	241744
WC9C	397	1012	236	238832
RW0BG	352	1054	225	237150
SV1BSX	395	1088	217	236096
SQ6FHP	368	1077	214	230478
ON4KGL	367	966	235	227010
SM7BJW	361	971	229	222359
JA2BY	335	953	223	212519
MM0BQI	319	941	222	208902
SP3BLT	319	985	206	202910
RU3XB	363	962	210	202020
AA0YX	451	833	241	200753
I4HRH	322	888	225	199800
IK3QAR	353	851	231	196581
K1US	350	828	235	194580
K6TA	344	861	220	189420
YL3FW	337	996	190	189240
IZ4DZD	324	951	198	188298
W4AUI	410	864	216	186624
N0AC	406	829	224	185696
UT5UML	335	884	209	184756
OK1DCP	328	877	207	181539
OM7PY	315	810	217	175770
W6ISO	363	781	222	173382
RA9AU	289	988	173	170924
VA3PL	332	883	190	167770
IZ8DVG	326	819	204	167076
OM7JG	308	887	187	165869
DL8SDC	300	840	196	164640
SP3NYS	250	780	209	163020
HB9DHG	347	831	195	162045

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**One Package Handles All Your
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- RTTY mode AFC — also known as Autotune
- Audio Compression — now you can save & play back your entire log after a contest, contact by contact, from WAV files on your H.D. — in CW, SSB, RTTY & PSK31 modes — via WAV file compression.
- CW Reader - print CW on screen like in a RTTY contest. We also added multi-channel CW reader capability. With a fast PC (350MHz Pentium or faster) WriteLog will decode CW at 6 different pitches on 2 radios simultaneously. Like having a backup operator looking over your shoulder.

"I made the first contest (non RTTY) with WriteLog, and it is FANTASTIC. It is such an improvement for me over CT... I really love it, and from now on anyone who operates from here will HAVE to use this program! I will twist their arms." — John, ON4UN

http://www.writelog.com
e-mail:k5dj@writelog.com

Ron Stailey, K5DJ
504 Dove Haven Dr.
Round Rock, TX 78664-5926
Tel: (512) 255-5000

2002 CQ/RJ Worldwide WPX Contest Results (Cont.)

February 9-10, 2002

VX9FX	355	900	215	193500
K9JY	308	808	238	192304
T88XF	332	994	186	184884
N4CW	345	824	214	176336
JN4FNZ	294	826	203	167678
DK7ZT	283	835	190	158650
N2FF	297	743	205	152315
W6JOX	363	741	204	151164
N8BJQ	276	754	187	140998
K3SV	267	739	174	128586
DL3JPN	240	666	185	123210
XE2AC	279	693	176	121968
G3UFY	213	694	161	111734
E47CWA	259	605	184	111320
W7DPW	293	636	175	111300
N4VV	254	609	175	106575
WA3AAN	264	589	165	97185
N8KM	242	578	162	93636
RX9TX	226	606	154	93324
Y02BZV	222	543	171	92853
K89JD	215	492	160	78720
G4EMT	204	514	143	73502
IZ5BSA	198	459	152	69768
IZ3BUR	196	479	139	66581
WO6M	203	424	143	60632
I2SVA	158	460	129	59340
K4RO	189	397	133	52801
F6IFY	159	391	119	46529
K0COP	145	360	120	43200
N7VGO	153	360	119	42840
K0JPL	143	378	101	38178
XE1YYD	157	378	100	37800
WA9ALS	160	343	101	34643
UA6JY	115	336	102	34272
AJ3M	149	304	102	31008
KZ5AM	180	266	110	29260
DM5JBN	111	260	105	27300
N3NZ	118	260	89	23140
K6SEM/2	94	229	84	19236
VE6YP	89	217	70	15190
WD5GSL	108	171	80	13680

Operators:

ZF2QS:	N6TQS
WW7OR:	W7GG
UF3CWR:	RZ3AZ
RQ4L:	UA4LCQ
J41YM:	OK1YM
7S5ARA:	SM5FUG
UZ7U:	UT3UA
DK0EE:	DL4MDO
RD0C:	UA0CA
DA0BVG:	DJ5JK
RS0F:	UA0FZ
UW5Q:	UR3QCW
T88XF:	JH5OXF

Multi-Single

Callsign	Qs	Points	WPX	Score
RW9C	1903	6695	520	3481400
OM5M	1731	5175	545	2820375
HG1S	1702	5259	524	2755716
UP5P	1466	4924	491	2417684
OL5Q	1557	4826	491	2369566
LX5A	1497	4566	497	2269302
UT9F	1520	4510	470	2119700
YL7C	1438	4282	481	2059642
NN6NN	1555	3768	501	1887768
AF4Z	1474	3913	480	1878240
M0SDX	1404	4056	463	1877928
OM8A	1311	3973	469	1863337
KP2D	1401	3822	446	1704612
LR0N	1122	3395	479	1626205
OK6A	1192	3588	431	1546428
S53M	1136	3636	421	1530756
VE5RI	1185	3087	447	1379889
J43BSF	1172	3174	414	1314036
RK9CZO	985	3013	434	1307642
YU7AL	1060	3093	408	1261944
KJ7TH	1284	2841	433	1230153
LU7FJ	812	2415	395	953925
I2OKW	836	2403	376	903528
DN1JC	767	2148	338	726024
VE3FJB	680	1883	344	647752
F8KFN/P	459	1359	237	322083
SN4R	400	1170	231	270270

VX9TTY	353	937	213	199581
W5YM	388	850	223	189550
LA1K	294	653	187	122111
OZ6TL	190	423	144	60912
W3DSX	122	288	116	33408

Operators:

RW9C:	UA9CGA, RW9CF, RU9CK, RA9DK
OM5M:	OM2RA, OM3BH, OM3RG
HG1S:	HA1TJ, HA1DAE, HA1DAC, HA1AG, HA1DAI
UP5P:	UN5PR, UN6P
OL5Q:	OK1HRA, OK1FFU, OK1VSL, OK1FLC
LX5A:	LX5A, LX1RQ, DF7ZS, DL1ZBO, DF4OR
UT9F:	UT9FJ, UT4ZX, UR5FEO, UR0FO, UT0FT
YL7C:	YL2MD, YL2GQT
NN6NN:	W6XK, N6DE, N6EE, N6LK, W6ADJ
AF4Z:	KC4HW, KE4MMI, K4PX, KT4FY, NR4E, WB4EQS, AB4ET, KD4HHF, W3QO, K4QD, AF4Z
M0SDX:	M0SDX, M0DXR
OM8A:	OM3RM, OM2VL
KP2D:	KP2N, KP2VI, NP2W, NP2DJ
LR0N:	LU2NI, LU1NDC, LU3HY, LU9HS, LU6HDF, LU8NA, LU4NAZ, LU1NAF
OK6A:	OK2CMW, OK2INW, OK2MTW, OK2PSE
S53M:	S51DM, S51ZO
VE5RI:	VA6EA, VE5FN, VE5WI, VE6EZ, VE6VAC
J43BSF:	SV1CIB, SV3BSF, SV3FUO
RK9CZO:	RV9CTD, RX9CAZ
YU7AL:	YU7AL, YT7AW, YZ7EM
KJ7TH:	KJ7TH, KW7N
LU7FJ:	LU5FF, LU5FII, LU4FXI, LU7FNI, LU3FLV
I2OKW:	I2OKW, IK2DHU, IK2FIL
DN1JC:	DN1JC, DL7VBJ
VE3FJB:	VE3FJB, VE3JUM, VE3THR, VA3DG, VA3CW, VE3ALH, VE3NDA, VA3FN
F8KFN/P:	F5TEF, F5TEU, F8CHR
SN4R:	SQ4TY, SQ4CCG, SQ4NR
VX9TTY:	VE9TTY, VE9NIN
W5YM:	KD5QYG, W6JVE, K5GOE
LA1K:	LA5LKA, LA6AKA
OZ6TL:	OZ6TL
W3DSX:	K3CHB, W3DSX

Multi-Two

Callsign	Qs	Points	WPX	Score
Z30M	2158	6300	563	3546900
JE4VVM	1505	4232	510	2158320
W8NI	446	938	235	220430

Operators:

Z30M:	Z31GX, Z31MM, Z32PT, Z33F, Z36W
JE4VVM:	JE4VVM, JG4CLV, JN4FEU
W8NI:	WB8SKP, WA8OOH, W8IBT, WD8OWA, KC8GKK, KC8QZG, KC8QZL

Multi-Multi

Callsign	Qs	Points	WPX	Score
3Z0WPX*	2451	7398	608	4497984
RI4M	2073	5638	547	3083986
KA4RRU	1920	5060	547	2767820
CT3BX	1436	5029	504	2534616
KX7LDS	1760	4014	521	2091294
SK6D	1460	4275	438	1872450
EA4ART	284	743	140	104020

Operators:

3Z0WPX*:	SP7GIQ, SP7PS, SQ5BPM, SP5UAF, SP5-25-0717
RI4M:	RA4LBE, RA4LW, RN4LP, RW4LE, RW4LR, RZ4LA
KA4RRU:	KA4RRU, W4MGM, W4DAV, WA4TK, N4DXS
CT3BX:	CT3BX, CT3FN, CT3/CT1AGF
KX7LDS:	KX7LDS, W7WW, K7WM
SK6D:	SM6FUD, SM6WQB, SM6WVK, SM6XKB, SM6XMY
EA4ART:	EA4OI, EA4AZJ

* Moved from original entry (M2) to MM due to excessive band change violations.

Check Logs:

4Z5AV, 4Z5KJ, A45XR, AA9NF, DL8UFO, EC4DFA, K6EP, LZ5ZI, N8YYS, OH3KOK, OK2HJD, OZ5MJ, RA3LX, RX3DNT, RZ1AZ, SN2E, SP2JHJ, SV1EPX, SV1XV, UA3AVR, UW0F, WS7I

Up-to-date Contest Information



www.rttyjournal.com/contests

WT4I Contest Tools

Tools to analyze and check
Cabrillo format logs

Now you can use the same software used by Official Contest Managers to check logs and expedite production of accurate and timely contest results!

WT4I Log Checker - Get a look at your log in a different view than what is provided by most contest logging programs. The user can easily spot bad or busted calls and missed or bad exchanges. The individual user is given the opportunity to look at the log in much the same way as an official log checker.

Cabrillo Converter - Convert just about any column based ASCII log into the Cabrillo format. The user simply identifies each of the columns through simple clicks of the mouse, enters the required header information, and saves the log in Cabrillo format. The resultant log is ready for log checking with WT4I Log Checker or for electronic submission.

Master Call Maintenance - Create and maintain your own master callsign database for use with WriteLog, WF1B RTTY, or with the WT4I Log Checker utility. The user can build a master callsign database from existing super check partial files, or build one semi-automatically from the callsigns found in Cabrillo format logs.

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- 30+ Major Contests
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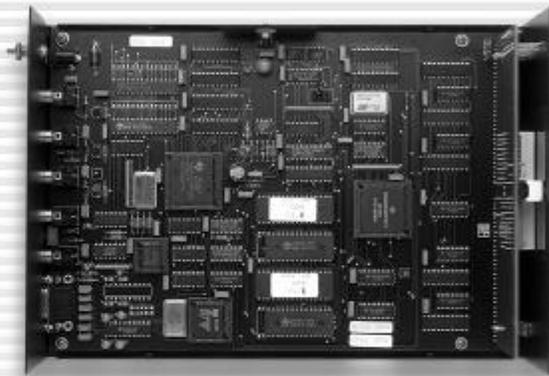


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Everything bad can and does happen to your HF signals, especially during a contest. Selective fading, noise, interference, and poor tuning indicators all conspire to let that rare DX get away. Track it down with the DXP38.

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