Editor: Rick, WØPC

Volume X, Issue 2

GM Net News

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Sept. 2017

SDR Anan 200D by Joe, W8DCQ

The Anan 200D is my third software defined radio. I got my feet wet a few years back with a Flex 1500; I was so impressed with the receiver performance I quickly upgraded to a Flex 5000A. The Anan, manufactured by Apache Labs, is a significant upgrade from my Flex 5000A. As you probably know, a software defined transceiver relies on a separate personal computer to do all the heavy lifting, having much more computing power than the internal DSP processor residing in the more conventional superhetrodyne architecture we have come accustom to over the past 100 years. The most impressive part of any SDR is the "brick wall" receive filters that let absolutely nothing get into the receiver repassband.

The Anan 200D has two separate analog to digital converters (ADC), one for each of the two receivers. The direct down conversion changes the RF signal at the antenna directly to digital data transmitted via an Ethernet cable to the PC which then does all the processing. By having two distinct ADC's, the Anan 200D is capable of diversity reception. The transceiver uses the main antenna and the second receiver with a receive only antenna; by changing the phase and amplitude of the two received signals you can peak the signal you want to hear and completely null out the nearby undesirable signal regardless if it is the neighbors plasma TV or an adjacent ham station.

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The GM Nets meet daily Monday through Saturday on 7.277.5 MHz at 17:00Z See you there! Would you like to help out with Net Control Duties? Contact our Net Manager George, KB9VF kb9vf@Comcast.net



Net Control Stations: George, KB9VF Rick, WØPC Verle, K8VW Bill, WB9YUR Denny, N8XLS Phil, W9MPA Bob, K8MPV Charlie, WD9IQV Scott, W1BIC Wally, WB8M Ed, K8DSS (Alternate)

Net Preamble & Closing

<u>Net Preamble</u>

This is (your call), today's net control. This net is composed of employees and retirees of the General Motors Corporation .

This net meets daily on this frequency for the purpose of getting better acquainted, expanding our knowledge, and improving our operating techniques. We promote friendship among participants in many locations who have many talents and have or have had a variety of work assignments. Visitors are always welcome to check in and join our daily net. Please stay carefully tuned to net control at all times. This is (your call) (working for or retired from) (your) Division in (your city), (state). My home QTH is (where you live). My name is (your name) and we will now take check-ins, one at a time, please.

When running the net, <u>pause after about 4 to 5 station</u> during the roundtable and <u>ask for check-ins</u> to allow folks to get on the list.

Net Closing

Are there any late check-ins for the net? (pause for late check-ins). Is there any further business for the net? (pause for any further business) Having no further business, we will close the net at this time. This net is composed of General Motors employees, retirees, and visitors. We meet each day, Monday through Saturday, on or about this frequency, at (<u>1700z</u> or 1800z). Thank you for your participation and please return often. This is (your call) now closing the net. 73 and Good Afternoon.

The bands have been rough lately with the declining sunspot cycle. We still get together daily so tune in and join us.

Net Control Schedule

September 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes:					1	2
	Please note cl	N8XLS -	WD9IQV -			
					Denny	Charlie
3	7 4	5	6	7	8	9
	WB9YUR - Bill	WB8M - Wally	WØPC- Rick	KB9VF - Geo	K8MPV - Bob	K8VW - Verle
10	11	12	13	14	15	16
	aran.	W9PMA - Phil	1989/0	WD9IQV -	WB9YUR - Bill	WB8M - Wally
			Denny	Charlie	100000000000000000000000000000000000000	
17	18	19	20	21	22	23
	WØPC- Rick	KB9VF - Geo	K8VW - Verle	K8MPV - Bob	W1BIC - Scott	W9PMA - Phil
24	25	26	27	28	29	30
	N8XLS -	WD9IQV -	WB9YUR - Bill	WB8M - Wally	WØPC- Rick	KB9VF - Geo
	Denny	Charlie				
Notes:		-				

Minnie, KD8PAZ fi-nally completed a 3,000 piece puzzle. It took a couple of months to get it all put together. It's hard to believe how many individual parts there really are. When Minnie is done with each puzzle, she coats them with a white glue that dries clear. That way, the picture is preserved forever. Thanks for the Pix Minnie



Do you like Fast Bass Boats?



When the fish are biting you got to get out there and catch them. The Lake of the Ozarks is 70 miles long and has more shoreline than California and Michigan. We have lots of nice fast fishing boats here.



Net Control Schedule

October 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
0	K8VW - Verle	K8MPV - Bob	W1BIC - Scott	W9PMA - Phil	N8XLS - Denny	WD9IQV - Charlie
8	9	10	11	12	13	14
	WB9YUR - Bill	WB8M - Wally	WØPC- Rick	KB9VF - Geo	K8MPV - Bob	K8VW - Verle
15	16	17	18	19	20	21
	W1BIC - Scott	W9PMA - Phil	N8XLS - Denny	WD9IQV - Charlie	WB9YUR - Bill	WB8M - Wally
22	23	24	25	26	27	28
	WØPC- Rick	KB9VF - Geo	K8VW - Verle	K8MPV - Bob	W1BIC - Scott	W9PMA - Phil
29	30	31	Notes:			
	N8XLS - Denny	WD9IQV - Charlie	Please no	ote the changes to	the net control sch	edule

Sometimes it's just best to be thankful to be warm, dry and inside a safe place on a rainy day.

Johnny, W4XKE

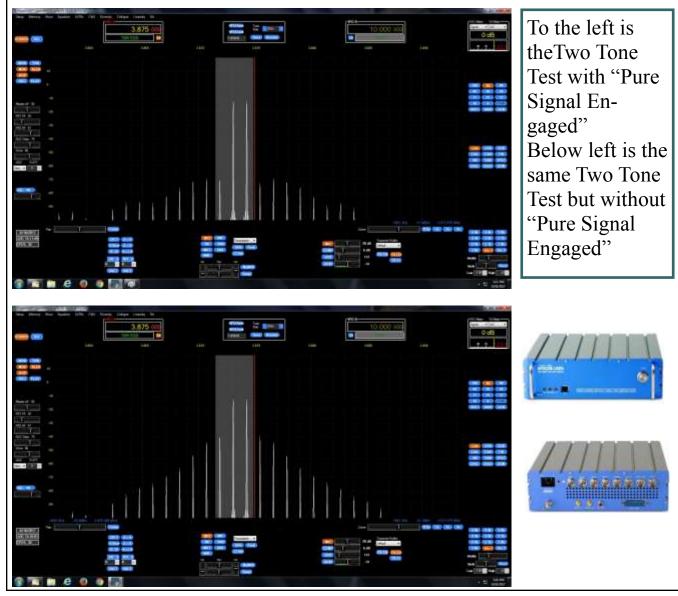


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GM Net News

(Continued from page 1, SDR Anan 200D) The other Anan only feature is the "Pure Signal" algorithm which samples the outgoing transmitted signal and through a closed loop, corrects the inherent non-linearity and feeds it back to the finals resulting in an IMD figure close to -60dB. That's impressive! If you are running a linear amplifier, you can use an external sampler and feed the amplifiers signal back into the pure signal algorithm and also correct the non-linearity that inhabits all "linear" amplifiers. Some of the other features include a 10 band receive audio equalizer and a 10 band transmit audio equalizer to customize the audio and match the characteristics of your voice and the microphone you are using. Since all the filtering is digital, you can adjust the transmit bandwidth to about anything you want. You are not limited by 2.4kc or 2.7 kc mechanical or crystal transmit filters; I have my transmit filter set at 100 – 3300 cycles which sounds full bodied without being overly broad.

The adjustment possibilities are almost endless and I am still learning. My analog, superhetrodyne rigs are all on the block. SDR's are the future. Check out the new Icom 7300 for a bargain price of \$1350. You will never own a superhetrodyne rig again. And don't forget the wonderful pan-adapter display provided by all SDR's. 73, Joe (W8DCQ)



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November 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes:			1	2	3	4
Please note schedule	e the changes to the n	et control	WB9YUR - Bill	WB8M - Wally	WØPC- Rick	KB9VF - Geo
5	6	5	8	9	10	11
	K8VW - Verle	K8MPV - Bob	W1BIC - Scott	W9PMA - Phil	N8XLS - Denny	WD9IQV - Charlie
12	13	14	15	16	17	18
	WB9YUR - Bill	WB8M - Wally	WØPC- Rick	KB9VF - Geo	K8MPV - Bob	K8VW - Verle
19	20	21	22	23	24	25
	and the second second second second second	W9PMA - Phi	N8XLS - Denny	WD9IQV - Charlie	WB9YUR - Bill	WB8M - Wally
26	27	28	29	30	Notes:	,
	WØPC- Rick	K8VW - Verle	KB9VF - Geo	K8MPV - Bob		

Introducing Scott, W1BIC, one of our newer 40 meter GM Net members. He used to try and check-in with his old Kenwood TS-480 running Remote Rig and a cell phone. Now Scott is often heard checking into our net using "Remotehams." Pictured is Scott sitting up on a roof-top at Greektown Detroit (8/9/17) while working our net. The cell phone in Scott's hand has the Android application running that permits him to check-in from anywhere there is an Internet connection. We can't control our band conditions but we can select which "Remotehams" station we use to join our net. Scott has an new Icom IC-7300 that runs the Remotehams Server program in Gaylord, MI. Recently, he found where the receiver noise was coming from and got that fixed. A low noise floor sure helps with the lousy band condx. QST magazine ran a nice article on RemoteHams. Go to the ARRL home page and do a search for "Remotehams" and you will see the article: Remote Control Your HF Rig via the Internet by Alfred T Yerger II WA2EHI. It's really easy to do especially if you can already do the digital modes like PSK-31 or JT-65. It uses the same equipment. You can change bands and modes remotely including the PTT function. Try it sometime. CU on the Net, 73



Great Lakes HamCon



Michigan International Speedway

Brooklyn, Michigan

Breaking News: ARRL President, Rick Roderick,

K5UR to attend Great Lakes HamCon!

Indoor Commercial Vendors Huge Paved Flea Market Free Parking in Infield Unique Location KB6NU's One-Day Tech Class Food Concessions Mobility Scooters Available Forums Workshops Camping Door Prizes VE Testing Fox Hunt Two days of fun!

GLHamCon Online Apparel Store now open!! https://glhamcon.qbstores.com

We will <u>NOT</u> run out of indoor space (adding however many event tents that it takes) and we have an unlimited paved area for Flea Market spaces. Of course, best spaces sell first!

www.glhamcon.org Info@glhamcon.org

Net Control Schedule

December 2017

	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2
te the changes to th	W1BIC - Scott	W9PMA - Phil			
1 4	5	6	7	8	5
N8XLS - Denny	WD9IQV - Charlie	WB9YUR - Bill	WØPC- Rick	KB9VF - Geo	K8VW - Verle
11	12	13	14	15	16
K8MPV - Bob	W1BIC - Scott	W9PMA - Phil	N8XLS - Denny	WD9IQV - Charlie	WB9YUR - Bill
18	19	20	21	22	23
WØPC- Rick	K8VW - Verle	KB9VF - Geo	K8MPV - Bob	W1BIC - Scott	W9PMA - Phil
25	26	27	28	29	30
N8XLS - Denny	WD9IQV - Charlie	WB9YUR - Bill	WØPC- Rick	KB9VF - Geo	K8VW - Verle
Notes:					
s." #*					and the state
	K	C8PIC			
	⁷ 4 N8XLS - Denny ¹¹¹ K8MPV - Bob ¹⁸ WØPC- Rick ²²⁵ N8XLS - Denny	4 5 N8XLS - WD9IQV - Denny Charlie 11 12 K8MPV - Bob W1BIC - Scott 18 19 WØPC- Rick K8VW - Verle 25 26 N8XLS - WD9IQV - Denny Charlie	N8XLS - DennyWD9IQV - CharlieWB9YUR - Bill111213K8MPV - BobW1BIC - ScottW9PMA - Phil181920WØPC- RickK8VW - VerleKB9VF - Geo252627N8XLS - DennyWD9IQV - CharlieWB9YUR - BillNotes:	4567N8XLS - DennyWD9IQV - CharlieWB9YUR - BillWØPC- Rick11121314K8MPV - BobW1BIC - ScottW9PMA - PhillN8XLS - Denny18192021WØPC- RickK8VW - VerleKB9VF - GeoK8MPV - Bob25262728N8XLS - DennyWD9IQV - CharlieWB9YUR - BillWØPC- RickNotes:KtestKtestKtest	45678N8XLS - DennyWD9IQV - CharlieWB9YUR - Bill WB9YUR - Bill WØPC- Rick W9PMA - Phill N8XLS - Denny14151112131415K8MPV - Bob W1BIC - ScottW9PMA - Phill N9PMA - Phill DennyN8XLS - DennyWD9IQV - Charlie1819202122WØPC- Rick K8VW - Verle K8VW - Verle Denny202122VØPC- Rick N8XLS - DennyV1BIC - ScottW1BIC - Scott2526272829N8XLS - DennyWD9IQV -





www.gmarc.org

GM Amateur Radio Club Membership Application

Membership in the GM Amateur Radio Club is open to anyone interested in amateur radio

New Mer	nber[]	Renewal []	Herita	ge[]		
Present C	all Sign		ARRL	ARRL member yes/ no		
Name						
I would li	ike to be ca	lled		(This will be used for the First Name on your ID Badg		
Mailing a	ddress			12.9		
City		Sta	te2	Zip		
County _		Home	e Phone #			
Cell phon	ie #	Worl	k Phone #	× 0		
E-mail ad	ldress					
Yearly du	ies are: Jam	uary 1 December 1	31			
[]\$20.0	0 Individu	al []\$30.00 Famil	y []Heritag	e \$10 (first year free)		
Please ma	ake checks	payable to: GM Am	ateur Radio (Club or GMARC		
Note: Ple	ase enclos	e a passport photo ((for your men	nbership id)		
Mail to:	GMARC	32 Control (1997) 147 (1997) 147				
		Cort - N8CY				
		ox Ln w apt 106	192921-Y			
	Shelby T	ownship, MI 48317	7-5054			

<u>Note from the Editor:</u> Many of our old Firebird ARC have also joined the GMARC as "Heritage" members. Nets are on WW8GM/R (443.075 MHz) linked to Echolink via WW8GM-R Monday's @ 8 PM EST or 0:00 Z