GACOMP2 protocol V1.32

This protocol is defined for a POCSAG encoder with RS-232 in baud rate (9600, N, 8, 1) of PC.

C send to Transmitter			
ransmitter command format (All contents is visible ASCII code exclude the STX and EOT) =			
TX + Capcode content + Message content + CheckSum + EOT			
02H + AAAAAAAERF + Message content + CCCC + 04H			
ormat Description :			
contents are all visible ASCII code value >= 20 Hex except the STX and EOT command			
TX is 02 Hex code , it is not visible in ASCII code			
OT is 04 Hex code , it is not visible in ASCII code			
apcode content = AAAAAAAERF			
(a) AAAAAAA is a 7 digits numeric between 0000008 - 2097151 representing a pager or RCM receiver capcode			
(b) E is 0,n,or N represent numeric encoding, and 1,a,or A represent alphanumeric encoding			
(c) R is RF data rate, where 5 represents 512 bps, 1 represents 1200 bps, and 2 represents 2400 bps			
(d) F is 0,1,2,3,or 4 defines the function code to be delivered.			
It is 0 represent the default value for F is 4 when the E value is alphanumeric, and 1 when the E value is numeric			
lumeric message = 0 to F Hex that transfer to visible ASCII code is 30H to 39H (0 – 9) and 41H to 45H (A – F).			

Message content = any message you want send out , if you did not carry any message then it will send out a "Tone Only" message output

CheckSum(CCCC) is a 4 number of ASCII code include all contents before CheckSum (STX + Capcode content + Message content)				
CheckSum example :	Capcode content	Message content	CheckSum	
EX 1. Num.1200bps	1000001N11	1234ABCD	03D8	
L)escription .	CheckSum = 3D8H (02H+31H+30H+30H+30H+30H+30H+		CCCC = 03D8 (30H,33H,44H,38H)	
	31H+4EH+31H+31H+31H+32H+33H+34H+41H+42H+43H+44H)			
Total contents = 02H + "1000001N111234ABCD03D8" + 04H				
EX 2. Alpha 1200bps	0000128 <mark>A11</mark>	abcdefghijk	0662	
Description :	CheckSum = 662H (02H+30H+30H+30H+30H+31H+32H+38H+41H+31H +31H+61H+62H+63H+64H+65H+66H+67H+68H+69H+6AH+6BH)		CCCC = 0662 (30H,36H,36H,32H)	
Total contents = 02H + "0000128A11abcdefghijk0662" + 04H				
EX3. Num. 512 bps	1000122 <mark>N5</mark> 1	xxx	6A3C	
Description :	CheckSum = 126A3CH (only use last 4 digits as valid)		CCCC = 6A3C (36H,41H,33H,43H)	

Transmitter send to PC

If command accept to transmitter then transmitter send CCCC + ACK(06H) to PC . the CCCC is check sum of message. if command did not accept to transmitter will not send back CCCC + ACK(06H) within 200 mS.

Note: Transmitter encode message must be following two conditions then transmitter will encode all messages and send all messages at one time.

1. PC send message then receive the ACK from transmitter and PC send first byte of next message less than 150mS after last ACK.

2. Transmitter received total messages is less then 15K bytes.

Idle Capcode is from 2007664 to 2007671.