

DENON AVR-4806 RC CODE

FORMAT SHARP

DATA CONSTRUCTION 15bits C14 0 C15 0=NOT INVERTED,1=INVERTED

SYSTEM ADDRESS(C1~C5) : 0 1 0 0 0 , EXTENSION BIT(C12,C13) : 1 1

No.	Data (C6~C11)	Key Name	No.	Data (C6~C11)	Key Name
0	0 0 0 0 0 0		16	0 0 0 0 1 0	FR LEVEL DOWN
1	1 0 0 0 0 0	POWER	17	1 0 0 0 1 0	
2	0 1 0 0 0 0	FL LEVEL UP	18	0 1 0 0 1 0	CDR/TAPE
3	1 1 0 0 0 0	PHONO	19	1 1 0 0 1 0	
4	0 0 1 0 0 0	CD	20	0 0 1 0 1 0	
5	1 0 1 0 0 0	TUNER	21	1 0 1 0 1 0	CINEMA EQ ON
6	0 1 1 0 0 0		22	0 1 1 0 1 0	SR LEVEL UP
7	1 1 1 0 0 0	FL LEVEL DOWN	23	1 1 1 0 1 0	SR LEVEL DOWN
8	0 0 0 1 0 0	DBS	24	0 0 0 1 1 0	VIDEO SELECT
9	1 0 0 1 0 0	TV	25	1 0 0 1 1 0	CINEMA EQ OFF
10	0 1 0 1 0 0	VDP	26	0 1 0 1 1 0	
11	1 1 0 1 0 0	FR LEVEL UP	27	1 1 0 1 1 0	MULTI
12	0 0 1 1 0 0	V.AUX	28	0 0 1 1 1 0	INPUT MODE ANALOG
13	1 0 1 1 0 0	VCR-1	29	1 0 1 1 1 0	CURSOR RIGHT
14	0 1 1 1 0 0	VCR-2	30	0 1 1 1 1 0	STATUS
15	1 1 1 1 0 0	VCR-3	31	1 1 1 1 1 0	ON SCREEN

SYSTEM ADDRESS(C1~C5) : 0 1 0 0 0 , EXTENSION BIT(C12,C13) : 1 1

No.	Data (C6~C11)	Key Name	No.	Data (C6~C11)	Key Name
32	0 0 0 0 0 1	ENTER	48	0 0 0 0 1 1	MUTING
33	1 0 0 0 0 1	POWER ON	49	1 0 0 0 1 1	MASTER VOLUME UP
34	0 1 0 0 0 1	POWER OFF	50	0 1 0 0 1 1	MASTER VOLUME DOWN
35	1 1 0 0 0 1	DVD	51	1 1 0 0 1 1	SL LEVEL UP
36	0 0 1 0 0 1	STANDARD(DOLBY/DTS SURR.)	52	0 0 1 0 1 1	SL LEVEL DOWN
37	1 0 1 0 0 1	SW LEVEL DOWN	53	1 0 1 0 1 1	CENTER LEVEL UP
38	0 1 1 0 0 1	DSP SIMULATION	54	0 1 1 0 1 1	CENTER LEVEL DOWN
39	1 1 1 0 0 1	SB/SBL LEVEL UP	55	1 1 1 0 1 1	SBR LEVEL UP
40	0 0 0 1 0 1		56	0 0 0 1 1 1	SBR LEVEL DOWN
41	1 0 0 1 0 1		57	1 0 0 1 1 1	TONE DEFEAT ON
42	0 1 0 1 0 1	TEST TONE	58	0 1 0 1 1 1	TONE DEFEAT OFF
43	1 1 0 1 0 1	SB/SBL LEVEL DOWN	59	1 1 0 1 1 1	SB:MATRIX ON
44	0 0 1 1 0 1	SW LEVEL UP	60	0 0 1 1 1 1	SB:NON MATRIX
45	1 0 1 1 0 1	SPEAKER	61	1 0 1 1 1 1	SB:OFF
46	0 1 1 1 0 1		62	0 1 1 1 1 1	
47	1 1 1 1 0 1		63	1 1 1 1 1 1	

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SYSTEM ADDRESS(C1~C5) : 0 0 1 1 0 , EXTENSION BIT (C12,C13) : 0 1

No.	Data (C6~C11)	Key Name	No.	Data (C6~C11)	Key Name
0	0 0 0 0 0 0	ALL BASS DOWN	16	0 0 0 0 1 0	ZONE2 CD
1	1 0 0 0 0 0		17	1 0 0 0 1 0	ZONE2 TUNER
2	0 1 0 0 0 0	SURROUND BACK	18	0 1 0 0 1 0	ZONE2 VDP
3	1 1 0 0 0 0	MASTER VOL PRESET1(0dB)	19	1 1 0 0 1 0	ZONE2 V.AUX
4	0 0 1 0 0 0		20	0 0 1 0 1 0	ZONE2 VCR-1
5	1 0 1 0 0 0	MASTER VOL PRESET2(-20dB)	21	1 0 1 0 1 0	
6	0 1 1 0 0 0	MASTER VOL PRESET3(-40dB)	22	0 1 1 0 1 0	MULTI PRESET UP
7	1 1 1 0 0 0	ZONE2 VOL PRESET1(0dB)	23	1 1 1 0 1 0	MULTI PRESET DOWN
8	0 0 0 1 0 0	ZONE2 VOL PRESET2(-20dB)	24	0 0 0 1 1 0	
9	1 0 0 1 0 0	ZONE2 VOL PRESET3(-40dB)	25	1 0 0 1 1 0	ZONE2 VCR-2
10	0 1 0 1 0 0	ZONE2 DBS	26	0 1 0 1 1 0	ZONE2 VCR-3
11	1 1 0 1 0 0	HOME THX CINEMA	27	1 1 0 1 1 0	ZONE2 TV
12	0 0 1 1 0 0	ZONE3 VOL PRESET1(0dB)	28	0 0 1 1 1 0	ZONE2 CDR/TAPE
13	1 0 1 1 0 0	ZONE2 VOLUME UP	29	1 0 1 1 1 0	STEREO
14	0 1 1 1 0 0	ZONE2 VOLUME DOWN	30	0 1 1 1 1 0	DIRECT
15	1 1 1 1 0 0	ZONE2 PHONO	31	1 1 1 1 1 0	ZONE3 VOL PRESET2(0dB)

SYSTEM ADDRESS(C1~C5) : 0 0 1 1 0 , EXTENSION BIT (C12,C13) : 0 1

No.	Data (C6~C11)	Key Name	No.	Data (C6~C11)	Key Name
32	0 0 0 0 0 1	SYSTEM SETUP	48	0 0 0 0 1 1	CH VOLUME UP
33	1 0 0 0 0 1	SURROUND PARAMETER	49	1 0 0 0 1 1	CH VOLUME DOWN
34	0 1 0 0 0 1	ZONE3 VOL PRESET2(0dB)	50	0 1 0 0 1 1	VIDEO OFF
35	1 1 0 0 0 1	CURSOR UP	51	1 1 0 0 1 1	
36	0 0 1 0 0 1	CURSOR DOWN	52	0 0 1 0 1 1	
37	1 0 1 0 0 1		53	1 0 1 0 1 1	INPUT MODE EXT.IN
38	0 1 1 0 0 1		54	0 1 1 0 1 1	INPUT MODE
39	1 1 1 0 0 1		55	1 1 1 0 1 1	ALL TREBLE UP
40	0 0 0 1 0 1	9CH STEREO	56	0 0 0 1 1 1	ALL TREBLE DOWN
41	1 0 0 1 0 1	2CH PLAY(INPUT)	57	1 0 0 1 1 1	TUNER SHIFT A
42	0 1 0 1 0 1	MULTI	58	0 1 0 1 1 1	TUNER SHIFT B
43	1 1 0 1 0 1	SHIFT F	59	1 1 0 1 1 1	TUNER SHIFT C
44	0 0 1 1 0 1	AUDIO FUNCTION	60	0 0 1 1 1 1	TUNER SHIFT D
45	1 0 1 1 0 1	VIDEO FUNCTION	61	1 0 1 1 1 1	TUNER SHIFT E
46	0 1 1 1 0 1	SHIFT G	62	0 1 1 1 1 1	ZONE2 DVD
47	1 1 1 1 0 1	CH SELECT	63	1 1 1 1 1 1	ALL BASS UP

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SYSTEM ADDRESS(C1~C5) : 0 0 1 1 0 , EXTENSION BIT (C12,C13) : 1 0

No.	Data (C6~C11)	Key Name	No.	Data (C6~C11)	Key Name
32	0 0 0 0 0 1		48	0 0 0 0 1 1	
33	1 0 0 0 0 1		49	1 0 0 0 1 1	
34	0 1 0 0 0 1		50	0 1 0 0 1 1	
35	1 1 0 0 0 1		51	1 1 0 0 1 1	
36	0 0 1 0 0 1		52	0 0 1 0 1 1	
37	1 0 1 0 0 1		53	1 0 1 0 1 1	
38	0 1 1 0 0 1		54	0 1 1 0 1 1	
39	1 1 1 0 0 1		55	1 1 1 0 1 1	
40	0 0 0 1 0 1		56	0 0 0 1 1 1	
41	1 0 0 1 0 1		57	1 0 0 1 1 1	
42	0 1 0 1 0 1		58	0 1 0 1 1 1	
43	1 1 0 1 0 1		59	1 1 0 1 1 1	
44	0 0 1 1 0 1		60	0 0 1 1 1 1	
45	1 0 1 1 0 1		61	1 0 1 1 1 1	
46	0 1 1 1 0 1		62	0 1 1 1 1 1	
47	1 1 1 1 0 1		63	1 1 1 1 1 1	CURSOR LEFT

SYSTEM ADDRESS(C1~C5) : 0 0 1 1 0 , EXTENSION BIT (C12,C13) : 1 1

No.	Data (C6~C11)	Key Name	No.	Data (C6~C11)	Key Name
0	0 0 0 0 0 0		16	0 0 0 0 1 0	
1	1 0 0 0 0 0	TUNER PRESET CH 1	17	1 0 0 0 1 0	
2	0 1 0 0 0 0	TUNER PRESET CH 2	18	0 1 0 0 1 0	RDS
3	1 1 0 0 0 0	TUNER PRESET CH 3	19	1 1 0 0 1 0	
4	0 0 1 0 0 0	TUNER PRESET CH 4	20	0 0 1 0 1 0	PTY
5	1 0 1 0 0 0	TUNER PRESET CH 5	21	1 0 1 0 1 0	TUNER PRESET DOWN
6	0 1 1 0 0 0	TUNER PRESET CH 6	22	0 1 1 0 1 0	TUNER PRESET UP
7	1 1 1 0 0 0	TUNER PRESET CH 7	23	1 1 1 0 1 0	TUNER BAND
8	0 0 0 1 0 0	TUNER PRESET CH 8	24	0 0 0 1 1 0	TUNING MODE(AUTOMANUAL)
9	1 0 0 1 0 0		25	1 0 0 1 1 0	TUNER TUNING UP
10	0 1 0 1 0 0		26	0 1 0 1 1 0	TUNER TUNING DOWN
11	1 1 0 1 0 0		27	1 1 0 1 1 0	
12	0 0 1 1 0 0	TUNER MEMORY	28	0 0 1 1 1 0	
13	1 0 1 1 0 0	TUNER SHIFT	29	1 0 1 1 1 0	
14	0 1 1 1 0 0	RT	30	0 1 1 1 1 0	
15	1 1 1 1 0 0		31	1 1 1 1 1 0	DIMMER

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No.	Data (C6~C11)	Key Name	No.	Data (C6~C11)	Key Name
0	0 0 0 0 0 0		16	0 0 0 0 1 0	
1	1 0 0 0 0 0		17	1 0 0 0 1 0	
2	0 1 0 0 0 0		18	0 1 0 0 1 0	ZONE3 TV
3	1 1 0 0 0 0		19	1 1 0 0 1 0	ZONE3 DBS
4	0 0 1 0 0 0		20	0 0 1 0 1 0	ZONE3 VCR-1
5	1 0 1 0 0 0		21	1 0 1 0 1 0	ZONE3 VCR-2
6	0 1 1 0 0 0		22	0 1 1 0 1 0	ZONE3 VCR-3
7	1 1 1 0 0 0		23	1 1 1 0 1 0	ZONE3 V.AUX
8	0 0 0 1 0 0	ZONE3 TUNER	24	0 0 0 1 1 0	
9	1 0 0 1 0 0	ZONE3 PHONO	25	1 0 0 1 1 0	
10	0 1 0 1 0 0	ZONE3 CD	26	0 1 0 1 1 0	
11	1 1 0 1 0 0		27	1 1 0 1 1 0	ZONE3 CDR/TAPE
12	0 0 1 1 0 0		28	0 0 1 1 1 0	
13	1 0 1 1 0 0		29	1 0 1 1 1 0	ZONE2 ON/OFF
14	0 1 1 1 0 0	ZONE3 DVD	30	0 1 1 1 1 0	
15	1 1 1 1 0 0	ZONE3 VDP	31	1 1 1 1 1 0	

SYSTEM ADDRESS (C1~C5) : 0 1 0 0 0 , EXTENSION BIT (C12,C13) : 1 0

No.	Data (C6~C11)	Key Name	No.	Data (C6~C11)	Key Name
32	0 0 0 0 0 1		48	0 0 0 0 1 1	
33	1 0 0 0 0 1		49	1 0 0 0 1 1	
34	0 1 0 0 0 1		50	0 1 0 0 1 1	
35	1 1 0 0 0 1		51	1 1 0 0 1 1	
36	0 0 1 0 0 1		52	0 0 1 0 1 1	
37	1 0 1 0 0 1	ZONE3 VR DOWN	53	1 0 1 0 1 1	
38	0 1 1 0 0 1	ZONE3 VR UP	54	0 1 1 0 1 1	
39	1 1 1 0 0 1		55	1 1 1 0 1 1	
40	0 0 0 1 0 1		56	0 0 0 1 1 1	
41	1 0 0 1 0 1		57	1 0 0 1 1 1	MAIN ZONE ON
42	0 1 0 1 0 1	PURE DIRECT	58	0 1 0 1 1 1	MAIN ZONE OFF
43	1 1 0 1 0 1		59	1 1 0 1 1 1	MULTI ZONE2 ON
44	0 0 1 1 0 1		60	0 0 1 1 1 1	MULTI ZONE2 OFF
45	1 0 1 1 0 1		61	1 0 1 1 1 1	MULTI ZONE3 ON
46	0 1 1 1 0 1		62	0 1 1 1 1 1	MULTI ZONE3 OFF
47	1 1 1 1 0 1		63	1 1 1 1 1 1	

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SYSTEM ADDRESS (C1~C5) : 0 0 1 0 0 , EXTENSION BIT (C12,C13) : 0 1

No.	Data (C6~C11)	Key Name	No.	Data (C6~C11)	Key Name
0	0 0 0 0 0 0		16	0 0 0 0 1 0	DOLBY PL II MUSIC
1	1 0 0 0 0 0	WIDE SCREEN	17	1 0 0 0 1 0	DOLBY PL
2	0 1 0 0 0 0	SUPER STADIUM	18	0 1 0 0 1 0	
3	1 1 0 0 0 0	ROCK ARENA	19	1 1 0 0 1 0	DTS ES MATRIX
4	0 0 1 0 0 0	JAZZ CLUB	20	0 0 1 0 1 0	DOLBY DIGITAL EX
5	1 0 1 0 0 0	CLASSIC CONCERT	21	1 0 1 0 1 0	CINEMA MODE
6	0 1 1 0 0 0	MONO MOVIE	22	0 1 1 0 1 0	MUSIC MODE
7	1 1 1 0 0 0	MATRIX	23	1 1 1 0 1 0	GAME MODE
8	0 0 0 1 0 0	VIDEO GAME	24	0 0 0 1 1 0	
9	1 0 0 1 0 0	VIRTUAL	25	1 0 0 1 1 0	
10	0 1 0 1 0 0	THX ULTRA2 CINEMA	26	0 1 0 1 1 0	
11	1 1 0 1 0 0	THX MUSIC MODE	27	1 1 0 1 1 0	
12	0 0 1 1 0 0	THX SURROUND EX	28	0 0 1 1 1 0	
13	1 0 1 1 0 0	DTS NEO:6 CINEMA	29	1 0 1 1 1 0	ROOM EQ
14	0 1 1 1 0 0	DTS NEO:6 MUSIC	30	0 1 1 1 1 0	
15	1 1 1 1 0 0	DOLBY PL II CINEMA	31	1 1 1 1 1 0	

SYSTEM ADDRESS (C1~C5) : 0 0 1 0 0 , EXTENSION BIT (C12,C13) : 0 1

No.	Data (C6~C11)	Key Name	No.	Data (C6~C11)	Key Name
32	0 0 0 0 0 1		48	0 0 0 0 1 1	
33	1 0 0 0 0 1		49	1 0 0 0 1 1	
34	0 1 0 0 0 1		50	0 1 0 0 1 1	
35	1 1 0 0 0 1		51	1 1 0 0 1 1	INPUT MODE AUTO
36	0 0 1 0 0 1		52	0 0 1 0 1 1	INPUT MODE PCM
37	1 0 1 0 0 1		53	1 0 1 0 1 1	INPUT MODE DTS
38	0 1 1 0 0 1		54	0 1 1 0 1 1	
39	1 1 1 0 0 1		55	1 1 1 0 1 1	INPUT MODE EXT.IN-1
40	0 0 0 1 0 1		56	0 0 0 1 1 1	
41	1 0 0 1 0 1		57	1 0 0 1 1 1	
42	0 1 0 1 0 1		58	0 1 0 1 1 1	
43	1 1 0 1 0 1		59	1 1 0 1 1 1	
44	0 0 1 1 0 1		60	0 0 1 1 1 1	
45	1 0 1 1 0 1		61	1 0 1 1 1 1	
46	0 1 1 1 0 1		62	0 1 1 1 1 1	
47	1 1 1 1 0 1		63	1 1 1 1 1 1	

DENON AVR-4806 RC CODE

FORMAT KASEIKYO

DATA CONSTRUCTION 48bits

DENON CODE																Parity				GENRE1			
4				5				2				3				0				4			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	0	1	0	1	0	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0

GENRE2	Data																parity				Key Name			
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
1 0 0 0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	MAIN ZONE USER-1
	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	MAIN ZONE USER-2
	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	MAIN ZONE USER-3
	1	0	1	1	0	1	1	0	0	1	0	0	1	1	1	0	1	1	0	1	1	0	1	MAIN ZONE AUDIO DELAY UP
	0	1	1	1	0	1	1	0	0	1	0	0	1	1	1	0	1	1	0	0	0	0	1	MAIN ZONE AUDIO DELAY DOWN
	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	BAND FM
	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	BAND AM
	1	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	BAND XM
1 1 0 0	0	1	0	0	1	1	1	0	1	0	0	0	0	0	1	1	1	0	1	0	0	0	ZONE2 VR MUTE	
1 0 1 0	0	1	0	0	1	1	1	0	1	0	0	0	0	0	1	1	1	0	1	0	0	0	ZONE3 VR MUTE	
1 1 1 0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ZONE4 POWER ON	
	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ZONE4 POWER OFF	
	0	0	0	0	1	1	1	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0	ZONE4 VR UP	
	1	0	0	0	1	1	1	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0	ZONE4 VR DOWN	
	0	1	0	0	1	1	1	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0	ZONE4 VR MUTE	
	0	0	1	0	1	1	1	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0	Z4 VR PRESET1(0dB)	
	1	0	1	0	1	1	1	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0	Z4 VR PRESET2(-20dB)	
	0	1	1	0	1	1	1	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0	Z4 VR PRESET3(-40dB)	
	0	0	0	0	0	0	1	1	0	1	0	0	0	0	1	1	0	1	0	0	0	0	ZONE4 PHONO	
	1	0	0	0	0	0	1	1	0	1	0	0	0	0	1	1	0	1	0	0	0	0	ZONE4 TUNER	
	0	1	0	0	0	0	1	1	0	1	0	0	0	0	1	1	0	1	0	0	0	0	ZONE4 CD	
	1	1	0	0	0	0	1	1	0	1	0	0	0	0	1	1	0	1	0	0	0	0	ZONE4 CDR/TAPE	
	0	0	0	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	0	0	ZONE4 DVD	
	1	0	0	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	0	0	ZONE4 VDP	
	0	1	0	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	0	0	ZONE4 TV	
	1	1	0	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	0	0	ZONE4 DBS	
1	0	1	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	0	0	ZONE4 VCR-1		
0	1	1	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	0	0	ZONE4 VCR-2		
1	1	1	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	0	0	ZONE4 VCR-3		
1	0	0	1	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	0	0	ZONE4 V.AUX		

DENON AVR-4806 RC CODE

FORMAT KASEIKYO

DATA CONSTRUCTION 48bits

DENON CODE																Parity				GENRE1			
4				5				2				3				0				7			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	0	1	0	1	0	1	0	0	1	0	0	1	1	0	0	0	0	0	0	1	1	1	0

GENRE2				Data																parity				Key Name	
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	1	1	1	0	1 (XM CHANNEL INPUT)	
				1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	2 (XM CHANNEL INPUT)
				0	1	0	0	0	1	1	0	0	0	0	0	1	1	0	0	1	0	1	0	3 (XM CHANNEL INPUT)	
				1	1	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	4 (XM CHANNEL INPUT)
				0	0	1	0	0	1	1	0	0	0	0	0	1	1	0	0	1	1	0	0	5 (XM CHANNEL INPUT)	
				1	0	1	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	6 (XM CHANNEL INPUT)
				0	1	1	0	0	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	7 (XM CHANNEL INPUT)	
				1	1	1	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	8 (XM CHANNEL INPUT)	
				0	0	0	1	0	1	1	0	0	0	0	0	1	1	0	0	1	1	1	1	9 (XM CHANNEL INPUT)	
				1	0	0	1	0	1	1	0	0	0	0	0	1	1	0	0	0	1	1	1	0 (XM CHANNEL INPUT)	