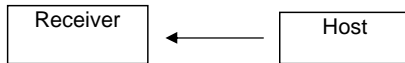
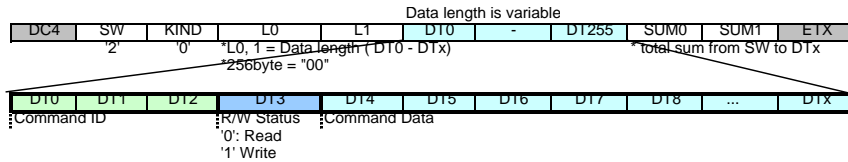


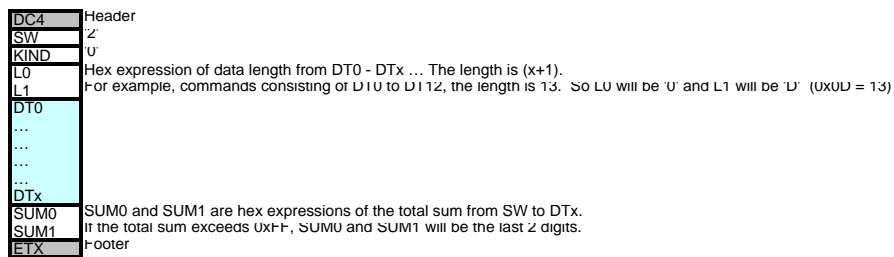
## RX-Vx700 Extended RS-232C Protocol

Commands from Host to Slave (Receiver)

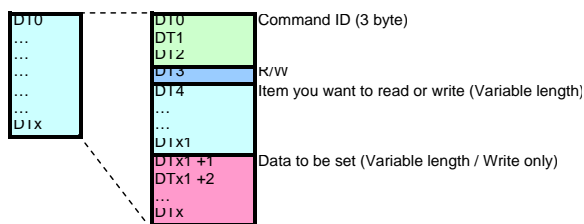
Extended command from the host to the receiver consists of the bytes as illustrated below.



When you read or write a parameter, the command from the host will consist of the following structure.



Following is the data structure from DT0 to DTx.



From the next page, only from DT0 to DTx bytes will be illustrated

	DT0	DT1	DT2	DT3	DT4	
System Information	0	0	0	0	ID	
				Read Only	0	Zone2
					1	Tuner
					2	Video
					3	Effect CH
					4	Digital Format
					5	+12V Trigger
					6	Preset
					7	Zone3
					8	iLINK
					9	HDMI
					A	XM
					F	Model Name

	DT0	DT1	DT2	DT3	DT4	
Input Information	0	0	1	0	ID	
				Read Only	0	SP Out
					1	Audio Input Analog
					2	Audio Input Optical
					3	Audio Input Coaxial
					4	Audio Input D.D.RF
					5	Video Input Composite / S
					6	Video Input Component
					7	Audio Output Analog
					8	Audio Output Optical
					9	Video Output Composite / S

	DT0	DT1	DT2	DT3	DT4	
DSP Information	0	0	2	0	ID	
				Read Only	0	Program
					1	User Parameters
					2	Maker Parameters

	DT0	DT1	DT2	DT3	DT4	
XM Information only USA & Canada	0	0	3	0	ID	
				Read Only	0	Antenna*

\* Effective in Set Menu "XM RADIO SET"

	DT0	DT1	DT2	DT3	DT4	
Play Information	0	0	4	0/1	ID	Data
					0	Output Setting
					0	Off
					1	On

	DT0	DT1	DT2	DT3	DT4	
List Information	0	0	5	0/1	ID	Data
					0	Output Setting
					0	OFF
					1	ON

## I/O Assign

0	1	0	0 / 1	TYPE	No	Input ID
0				0	Coaxial IN (No.1-3)	
1				1	Optical OUT (No.1-2)	
2				2	Optical IN (No.1-5)	
3				3	Component Video (No.A-C)	
4				4	i.LINK	
				0	1	or A
				1	2	or B
				2	3	or C
				3	4	or D
				4	5	or E
				5	6	or F
6				6	HDMI (V700: No.1-2)	
				0	1	
				1	2	
6				6	HDMI (V2700: No.1-3)	
				1	1	
				2	2	
				3	3	
				0	0	PHONO
				0	1	CD
				0	2	TUNER
				0	3	CD-R
				0	4	MD/TAPE
				0	5	DVD
				0	6	DTV
				0	7	CBL/SAT
				0	8	SAT
				0	9	VCR1
				0	A	DVR/VCR2
				0	B	VCR3
				0	C	V-AUX
				0	D	LD-RF
				0	E	XM
				0	F	None (Read Only)
				1	0	Multi CH

## Rename

0	1	1	0 / 1	Rename ID	SUB ID 1	SUB ID 2	Data No. 1	Data No. 2	Command Data
0				0					
					Input				
				0	0				PHONO
				0	1				CD
				0	2				TUNER
				0	3				CD-R
				0	4				MD/TAPE
				0	5				DVD
				0	6				DTV
				0	7				CBL/SAT
				0	8				SAT
				0	9				VCR1
				0	A				DVR/VCR2
				0	B				VCR3
				0	C				V-AUX
				0	D				Multi CH
				0	E				XM*
				0	F				
				1	0				Multi CH
				2	0				DOCK
					Character No.				
					X	X			character number (= "08")
									New Name (8 characters)
					X	...	X		

\* Only USA &amp; Canada

## Volume Trim

0	1	2	0 / 1	Input ID	Trim Value
0				0	PHONO
0				1	CD
0				2	TUNER
0				3	CD-R
0				4	MD/TAPE
0				5	DVD
0				6	DTV
0				7	CBL/SAT
0				8	SAT
0				9	VCR1
0				A	DVR/VCR2
0				B	VCR3
0				C	V-AUX
0				D	Multi CH
0				E	XM*
1				0	Multi CH
2				0	DOCK
2				1	PC/MCX* * Only RX-V2700
2				2	NET Radio * Only RX-V2700
2				3	USB* * Only RX-V2700
					Trim Value
				X	X

"00"-"18" "00":-6.0dB  
 "01":-5.5dB  
 :  
 "18":+6.0dB

User Parameter

0	2	0	0 / 1	DSP ID	Parameter ID	Parameter Data
0	0	0	0	0	Munich	
0	0	0	1	1	Hall B	
0	0	0	2	2	Hall C	
0	0	0	3	3		
0	0	0	4	4	Hall D	
0	0	0	5	5	Vienna	
0	0	0	6	6	Live Concert	
0	0	0	7	7	Amsterdam	
0	0	0	8	8	Tokyo	
0	0	0	9	9	Freiburg	
0	0	0	A	A	Royaumont	
0	0	0	B	B	Chamber	
0	0	0	C	C	Village Gate	
0	0	0	D	D	Village Vanguard	
0	0	0	E	E	The Bottom Line	
0	0	0	F	F	Cellar Club	
1	0	0	0	0	The Roxy Theatre	
1	0	0	1	1	Warehouse Loft	
1	0	0	2	2	Arena	
1	0	0	3	3		
1	0	0	4	4	Disco	
1	0	0	5	5	Party	
1	0	0	6	6	Game	
1	0	0	7	7	7ch Stereo	
1	0	0	8	8	Music Video	
1	0	0	9	9	DJ	
1	0	0	A	A		
1	0	0	B	B		
1	0	0	C	C	Recital/Opera	
1	0	0	D	D	Pavilion	
1	0	0	E	E	Action Game	
1	0	0	F	F	Roleplaying Game	
2	0	0	0	0	Mono Movie	
2	0	0	1	1	Sports	
2	0	0	2	2		
2	0	0	3	3		
2	0	0	4	4	Spectacle	
2	0	0	5	5	Sci-Fi	
2	0	0	6	6		
2	0	0	7	7		
2	0	0	8	8	Adventure	
2	0	0	9	9	Drama	
2	0	0	A	A		
2	0	0	B	B		
2	0	0	C	C	Surround Decode	
2	0	0	D	D	Standard	
2	0	0	E	E		
2	0	0	F	F		
3	0	0	0	0	Pro Logic II Movie	
3	0	0	1	1	Pro Logic II Music	
3	0	0	2	2	NEO:6 Cinema	
3	0	0	3	3	NEO:6 Music	
3	0	0	4	4	2ch Stereo	
3	0	0	5	5	DIRECT STEREO	
3	0	0	6	6	THX Cinema ( Select2 )	
3	0	0	7	7	THX Music	
3	0	0	8	8		
3	0	0	9	9	HALL F	
3	0	0	A	A	HALL G	
3	0	0	B	B	HALL H	
3	0	0	C	C	THX Game	
4	0	0	0	0	Enhancer 2ch Low	
4	0	0	1	1	Enhancer 2ch High	
4	0	0	2	2	Enhancer 7ch Low	
4	0	0	3	3	Enhancer 7ch High	
8	0	0	0	0	STRAIGHT	
					Parameter ID	
0	0	0	0	0	P. Init. Delay	
0	0	0	1	1	P. Room Size	
0	0	0	2	2	P. Liveness	
0	0	0	3	3	S. Delay (2ch)	
0	0	0	4	4	S. Delay (Multi ch)	
0	0	0	5	5	S. Init Delay	
0	0	0	6	6	S. Room Size	
0	0	0	7	7	S. Liveness	
0	0	0	8	8	SB. Init. Delay	
0	0	0	9	9	SB Room Size	
0	0	0	A	A	SB Liveness	
0	0	0	B	B	Rev. Time	
0	0	0	C	C	Rev. Delay	
0	0	0	D	D	Rev. Level	
0	0	0	E	E	DSP Level	
0	0	0	F	F	Panorama	
1	0	0	0	0	Dimension	
1	0	0	1	1	CT Width	
1	0	0	2	2	C. Image	
1	0	0	3	3	CT Level	
1	0	0	4	4	SL Level	
1	0	0	5	5	SB Level	
1	0	0	6	6	SR Level	
1	0	0	7	7	PL Level	
1	0	0	8	8	PR Level	
1	0	0	9	9	SBL LEVEL	
1	0	0	A	A	SBR LEVEL	
1	0	0	B	B	Decoder Type	
1	0	0	C	C	DIAL LIFT	
1	0	0	D	D	2CH DECODE	
1	0	0	E	E	Pro Logic / PLIIx	
2	0	0	0	0	FOCUS*	*SRS CSII Parameter: Only Japan
2	0	0	2	2	TruBass*	
2	0	0	4	4	Direct	
					Parameter Data	See Next Page



**Graphic EQ\***  
 \*RX-V1700

0	3	0	0 / 1	CH ID	Band ID	Gain
				0	Center	
				1	S.Back	
				2	Front L	
				3	Front R	
				4	Surround L	
				5	Surround R	
				6	Surround Back L	
				7	Surround Back R	
				8	Presence L	
				9	Presence R	
				Band ID		
				0	63Hz	
				2	160Hz	
				4	400Hz	
				6	1kHz	
				8	2.5kHz	
				A	6.3kHz	
				C	16kHz	
				Gain		
				X	X	"03" - "1B" 0.5dB Step
						"03" : -6.0dB
						"04" : -5.5dB
						:
						"0F" : 0.0dB
						:
						"1B" : +6.0dB
				A	Subwoofer	
				Band ID		
				0	63Hz	
				2	160Hz	
				Gain		
				X	X	"03" - "1B" 0.5dB Step
						"03" : -6.0dB
						"04" : -5.5dB
						:
						"0F" : 0.0dB
						:
						"1B" : +6.0dB

**Tone Control**  
 for Main Zone

0			3	3	0 / 1	SP/HP	BASS/TRBL	Turn Over*	Gain
						0	Speaker	*Effective only for RX-V2700	
						1	Headphone		
						0	BASS		
						1	TREBLE		
						0	125Hz / 2.5kHz (BASS / TREBLE)		
						1	350Hz / 3.5kHz		
						2	500Hz / 8.0kHz		
							X	X	"00" - "18" 0.5dB Step
									"00" : -6.0dB
									"01" : -5.5dB
									:
									"0C" : 0.0dB
									:
									"18" : +6.0dB

**Parametric EQ\***  
 \*Only RX-V2700

0	3	4	0 / 1	CH ID	BAND ID	Freq.	Gain	Q
				0	Center			
				1	S.Back			
				2	Front L			
				3	Front R			
				4	Surround L			
				5	Surround R			
				6	S.Back L			
				7	S.Back R			
				8	Presence L			
				9	Presence R			
				BAND ID				
				0	BAND1			
				1	BAND2			
					Freq.	(Hz)		
					0	6		31.3
					0	8		39.4
					0	A		49.6
					0	C		62.5
					0	E		78.7
					1	0		99.2
					1	2		125.0
					1	4		157.5
					1	6		198.4
					1	8		250.0
					1	A		315.0
					1	C		396.9
					1	E		500.0
					2	0		630.0
					2	2		793.7
					2	4		1.00k
					2	6		1.26k
					2	8		1.59k
					2	A		2.00k
					2	C		2.52k
					2	E		3.17k
					3	0		4.00k
					3	2		5.04k
					3	4		6.35k
					3	6		8.00k
					3	8		10.1k
					3	A		12.7k
					3	C		16.0k
					Gain		"00"- "34"	
					X	X	-20.0dB - +6.0dB 0.5dB Step	
						Q		
						0		0.500
						1		0.630
						2		0.794
						3		1.000
						4		1.260
						5		1.587
						6		2.000
						7		2.520
						8		3.175
						9		4.000
						A		5.040
						B		6.350
						C		8.000
						D		10.080
				BAND ID				
				2	BAND3			
				3	BAND4			
				4	BAND5			
				5	BAND6			
				6	BAND7			
					Freq.	(Hz)		
					1	6		198.4
					1	8		250.0
					:	:		:
					3	A		12.7k
					3	C		16.0k
					Gain		"00"- "34"	
					X	X	-20.0dB - +6.0dB 0.5dB Step	
						Q		
						0		0.500
						1		0.630
						:		:
						C		8.000
						D		10.080
				CH ID				
				A	Subwoofer			
				BAND ID				
				0	BAND1			
				1	BAND2			
					Freq.	(Hz)		
					0	6		31.3
					0	C		62.5
					:	:		:
					1	6		198.4
					1	8		250.0
					Gain		"00"- "34"	
					X	X	-20.0dB - +6.0dB 0.5dB Step	
						Q		
						0		0.500
						1		0.630
						:		:
						C		8.000
						D		10.080

## +12V Trigger

'0'	'4'	'0'	'0'/'1'	Terminal ID	Zone ID	Input ID	Data
				0	Terminal1		
				1	Terminal2		
				0	Main		
				1	Zone 2		
				2	Zone 3		
				0	0	PHONO	
				0	1	CD	
				0	2	TUNER	
				0	3	CD-R	
				0	4	MD/TAPE	
				0	5	DVD	
				0	6	DTV	
				0	7	CBL/SAT	
				0	8	SAT	
				0	9	VCR1	
				0	A	DVR/VCR2	
				0	B	VCR3	
				0	C	V-AUX	
				0	D	NET/USB	* Only RX-V2700
				0	E	XM*	* Only USA & Canada
				1	0	Multi CH	
					0	Low	
					1	High	

## Speaker Distance

'0'	'4'	'1'	'0'/'1'	CH ID	UNIT ID	Distance	Distance	Distance
				0	Center			
				1	S.Back			
				2	Front L			
				3	Front R			
				4	Surround L			
				5	Surround R			
				6	S.Back L			
				7	S.Back R			
				8	Presence L			
				9	Presence R			
				A	Subwoofer			
				0	Meter			
				1	Feet			
					Distance			
					X	X	X	

Meter "01E" - "960"  
( 0.30 - 24.00m 0.01m Step )  
Feet "00A" - "320"  
(0 - 80ft 0.1ft Step )

## Tuner Station

'0'	'5'	'0'	'0'/'1'	PAGE	Number	BAND	FREQ.1	FREQ.2	FREQ.3	FREQ.4	FREQ.5	FREQ.6
				0	Current							
				1	Page A							
				2	Page B							
				3	Page C							
				4	Page D							
				5	Page E							
				0	Current							
				1	No. 1							
				2	No. 2							
				3	No. 3							
				4	No. 4							
				5	No. 5							
				6	No. 6							
				7	No. 7							
				8	No. 8							
					Band ID 3							
					0	AM						
					1	FM						
						FREQ.1	FREQ.2	FREQ.3	FREQ.4	FREQ.5	FREQ.6	
					X:'0' - '9' or '.'	X	X	X	X	X	X	
					ex. FM 108.0MHz	'1'	'0'	'8'	'.'	'0'	'0'	
					ex. AM 990kHz	'0'	'0'	'0'	'9'	'9'	'0'	

## XM Preset

'0'	'5'	'1'	'0'/'1'	PAGE	Number	Station ID
				0	Current	
				1	Page A	
				2	Page B	
				3	Page C	
				4	Page D	
				5	Page E	
				0	Current	
				1	No. 1	
				2	No. 2	
				3	No. 3	
				4	No. 4	
				5	No. 5	
				6	No. 6	
				7	No. 7	
				8	No. 8	
					X	X

"00" - "FF": #0-255  
(#0: undefined behavior)

## Network Setting

'0'	'6'	'0'	'0'/'1'	ID	DHCP	IP Address	Subnet	Default GW	DNS (P)	DNS (S)
				0	ADDRESS					
				0	OFF					
				1	ON					
					X	...	X	"00000000" - "FFFFFFF"	00.00.00.00 - 255.255.255.255	

\*If "DHCP" is "ON", address data is invalid.

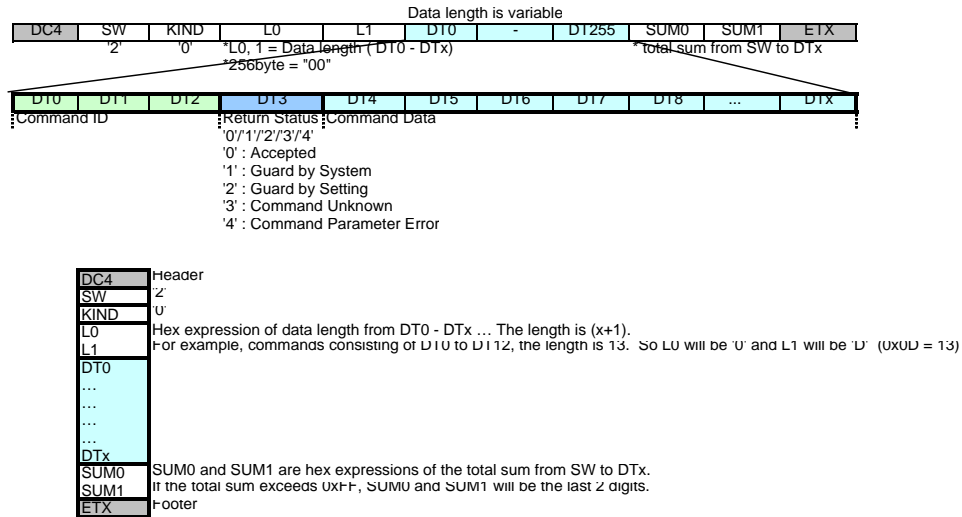


## RX-Vx700 Extended RS-232C Protocol

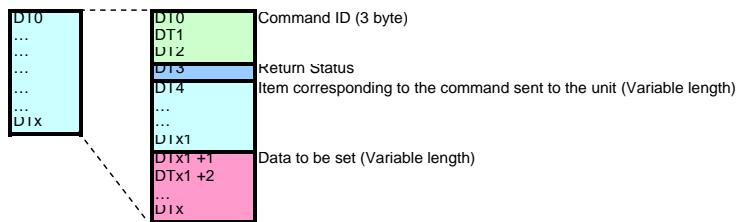
### Return Commands from Slave to Host



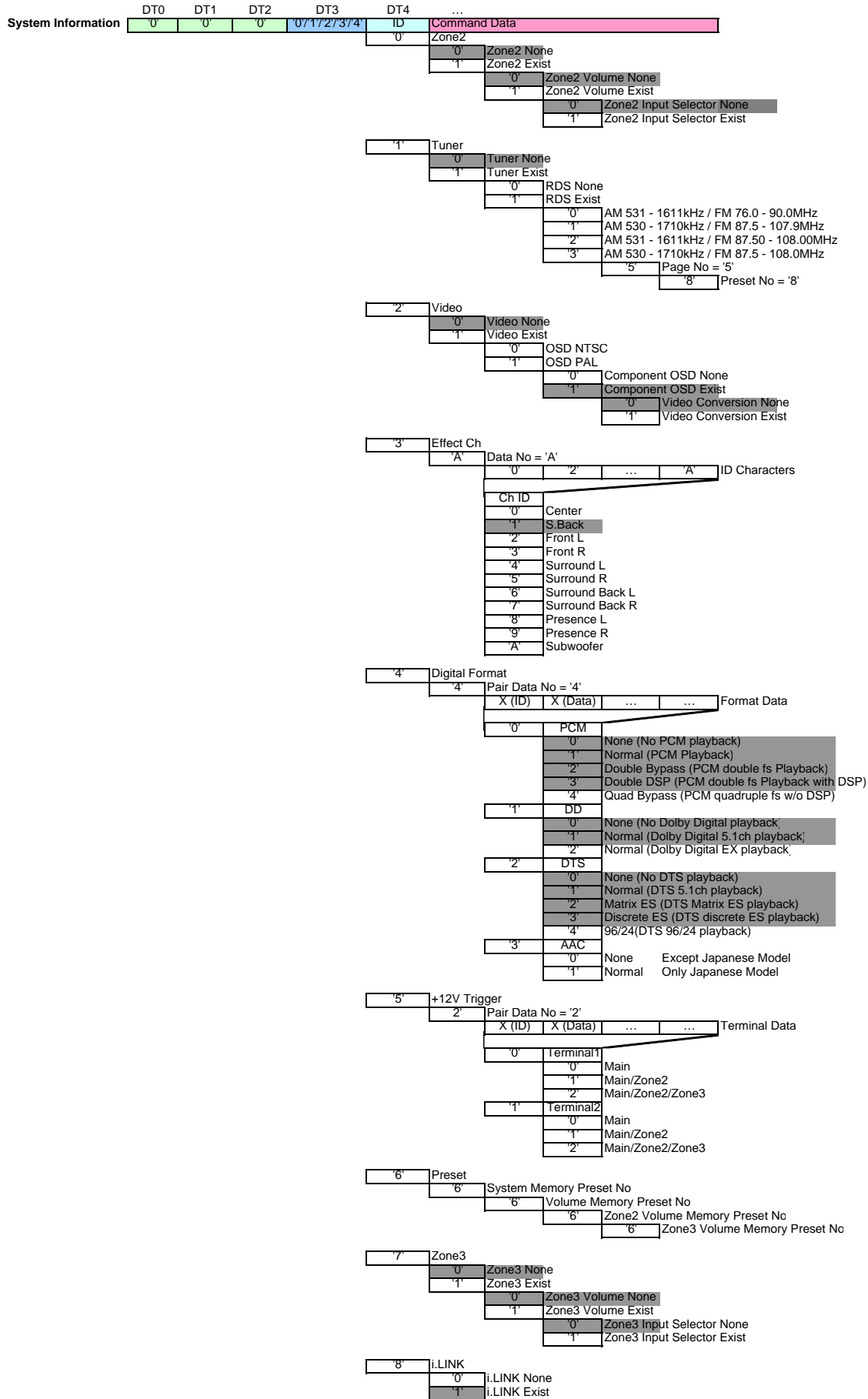
Return command from the receiver to the host consists of the bytes as illustrated below.

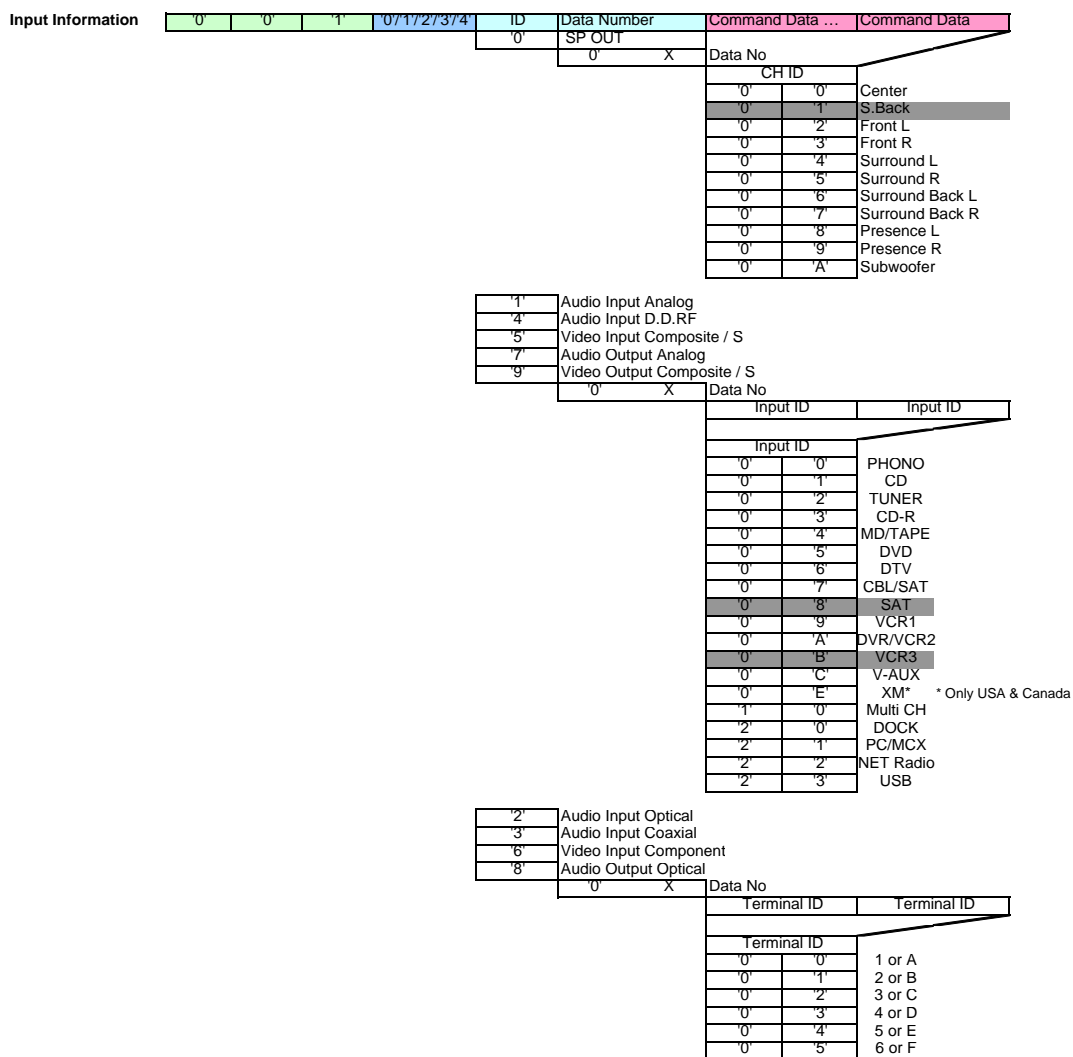
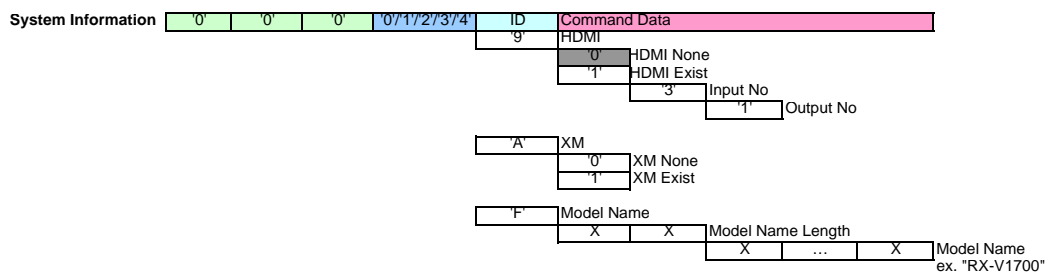


Following is the data structure from DT0 to DTx.



From the next page, only from DT0 to DTx bytes will be illustrated





## DSP Information

0	0	2	0/1/2/3/4	ID	Data Number	Command Data	Command Data
				0	Program		
					X X		
						Data No	
						Program ID	
				0	0	Munich	
				0	1	Hall B	
				0	2	Hall C	
				0	3		
				0	4	Hall D	
				0	5	Vienna	
				0	6	Live Concert	
				0	7	Amsterdam	
				0	8	Tokyo	
				0	9	Freiburg	
				0	A	Royaumont	
				0	B	Chamber	
				0	C	Village Gate	
				0	D	Village Vanguard	
				0	E	The Bottom Line	
				0	F	Cellar Club	
				1	0	The Roxy Theatre	
				1	1	Warehouse Loft	
				1	2	Arena	
				1	3		
				1	4	Disco	
				1	5	Party	
				1	6	Game	
				1	7	7ch Stereo	
				1	8	Music Video	
				1	9	DJ	
				1	A		
				1	B		
				1	C	Recital/Opera	
				1	D	Pavilion	
				1	E	Action Game	
				1	F	Roleplaying Game	
				2	0	Mono Movie	
				2	1	Sports	
				2	2		
				2	3		
				2	4	Spectacle	
				2	5	Sci-Fi	
				2	6		
				2	7		
				2	8	Adventure	
				2	9	Drama	
				2	A		
				2	B		
				2	C	Surround Decode	
				2	D	Standard	
				2	E		
				2	F		
				3	0	Pro Logic II Movie	
				3	1	Pro Logic II Music	
				3	2	NEO:6 Cinema	
				3	3	NEO:6 Music	
				3	4	2ch Stereo	
				3	5	DIRECT STEREO	
				3	6	THX Cinema ( Select2 )	
				3	7	THX Music	
				3	8		
				3	9	HALL F	
				3	A	HALL G	
				3	B	HALL H	
				3	C	THX Game	
				4	0	Enhancer 2ch Low	
				4	1	Enhancer 2ch High	
				4	2	Enhancer 7ch Low	
				4	3	Enhancer 7ch High	
				8	0	STRAIGHT	

## DSP Information

0	0	2	0/1/2/3/4	ID	Data Number	Command Data	...	Command Data
				1	User Parameter			
				2	Maker Parameter			
					X X			
						Data No		
						Parameter ID		
						0	0	P. Init. Delay
						0	1	P. Room Size
						0	2	P. Liveness
						0	3	S. Delay (2ch)
						0	4	S. Delay (Multi ch)
						0	5	S. Init Delay
						0	6	S. Room Size
						0	7	S. Liveness
						0	8	SB. Init. Delay
						0	9	SB Room Size
						0	A	SB Liveness
						0	B	Rev. Time
						0	C	Rev. Delay
						0	D	Rev. Level
						0	E	DSP Level
						0	F	Panorama
						1	0	Dimension
						1	1	CT Width
						1	2	C. Image
						1	3	CT Level
						1	4	SL Level
						1	5	SB Level
						1	6	SR Level
						1	7	PL Level
						1	8	PR Level
						1	9	SBL LEVEL
						1	A	SBR LEVEL
						1	B	Decoder Type
						1	C	DIAL LIFT
						1	D	2CH DECODE
						1	E	Pro Logic / PLIIX
						2	0	FOCUS*
						2	2	TruBass* *SRS CSII Parameter: Only Japan
						2	4	Direct

## XM Information

0	0	3	0/1/2/3/4	ID	Command Data
				0	Antenna
					X X
					Level
					"00" Wait
					"01" - "64" 1 - 100%
					"FF" None

## Play Information

0	0	4	0/1/2/3/4	ID	DATA
				0	Output Setting
				0	Off
				1	On
					Read Only
				ID	Title (Song)
				1	XM (*1)
				2	iPod (*2)
				3	NET/USB (*3)
					X ... X
					Latin-1 Data (Length = 40)
					X... Latin-1 Data (Length = 20)
					X... Latin-1 Data (Length = 20)
					X... Latin-1 Data (Length = 20)
					X... Latin-1 Data (Length = 20)

\*1 This command is automatically reported when Output Setting is "ON" and main input is "XM"

\*2 This command is automatically reported when Output Setting is "ON", main input is "DOCK" and iPod mode is "menu browse mode".

\*3 This command is automatically reported when Output Setting is "ON" and main input is "NET/USB"

## List Information

0	0	5	0/1/2/3/4	ID	Data
				0	Output Setting
				0	OFF
				1	ON
					Read Only
				ID	Sel. Line
				2	iPod (*1)
				3	NET/USB (*2)
				0	Line 1
				1	Line 2
				2	Line 3
				3	Line 4
				F	None
					Text Data
					X ... X
					Latin-1 Data (Length = 20)

\*1 This command is automatically reported when Output Setting is "ON", main input is "DOCK" and iPod mode is "menu browse mode".

\*2 This command is automatically reported when Output Setting is "ON" and main input is "NET/USB"



User Parameter

0'	2'	0'	0/1/2/3/4'	DSP ID	Parameter ID	Parameter Data
				0	0	Munich
				0	1	Hall B
				0	2	Hall C
				0	3	
				0	4	Hall D
				0	5	Vienna
				0	6	Live Concert
				0	7	Amsterdam
				0	8	Tokyo
				0	9	Freiburg
				0	A	Royaumont
				0	B	Chamber
				0	C	Village Gate
				0	D	Village Vanguard
				0	E	The Bottom Line
				0	F	Cellar Club
			1	0		The Roxy Theatre
			1	1		Warehouse Loft
			1	2		Arena
			1	3		
			1	4		Disco
			1	5		Party
			1	6		Game
			1	7		7ch Stereo
			1	8		Music Video
			1	9		DJ
			1	A		
			1	B		
			1	C		Recital/Opera
			1	D		Pavilion
			1	E		Action Game
			1	F		Roleplaying Game
			2	0		Mono Movie
			2	1		Sports
			2	2		
			2	3		
			2	4		Spectacle
			2	5		Sci-Fi
			2	6		
			2	7		
			2	8		Adventure
			2	9		Drama
			2	A		
			2	B		
			2	C		Surround Decode
			2	D		Standard
			2	E		
			2	F		
			3	0		Pro Logic II Movie
			3	1		Pro Logic II Music
			3	2		NEO:6 Cinema
			3	3		NEO:6 Music
			3	4		2ch Stereo
			3	5		DIRECT STEREO
			3	6		THX Cinema ( Select2 )
			3	7		THX Music
			3	8		
			3	9		HALL F
			3	A		HALL G
			3	B		HALL H
			3	C		THX Game
			4	0		Enhancer 2ch Low
			4	1		Enhancer 2ch High
			4	2		Enhancer 7ch Low
			4	3		Enhancer 7ch High
			8	0		STRAIGHT
					Parameter ID	
				0	0	P. Init. Delay
				0	1	P. Room Size
				0	2	P. Liveness
				0	3	S. Delay (2ch)
				0	4	S. Delay (Multi ch)
				0	5	S. Init Delay
				0	6	S. Room Size
				0	7	S. Liveness
				0	8	SB. Init. Delay
				0	9	SB Room Size
				0	A	SB Liveness
				0	B	Rev. Time
				0	C	Rev. Delay
				0	D	Rev. Level
				0	E	DSP Level
				0	F	Panorama
				1	0	Dimension
				1	1	CT Width
				1	2	C. Image
				1	3	CT Level
				1	4	SL Level
				1	5	SB Level
				1	6	SR Level
				1	7	PL Level
				1	8	PR Level
				1	9	SBL LEVEL
				1	A	SBR LEVEL
				1	B	Decoder Type
				1	C	DIAL LIFT
				1	D	2CH DECODE
				1	E	Pro Logic / PLIIx
			2	0		FOCUS*
			2	2		TruBass*
			2	4		Direct
					Parameter Data	See Next Page

\*SRS CSII Parameter: Only Japan





# Graphic EQ\* RX-V1700

0	3	0	0/1/2/3/4	CH ID	Band ID	Gain
				0	Center	
				1	S.Back	
				2	Front L	
				3	Front R	
				4	Surround L	
				5	Surround R	
				6	Surround Back L	
				7	Surround Back R	
				8	Presence L	
				9	Presence R	
				Band ID		
				0	63Hz	
				2	160Hz	
				4	400Hz	
				6	1kHz	
				8	2.5kHz	
				A	6.3kHz	
				C	16kHz	
				Gain		
				X	X	
						"03" - "1B" 0.5dB Step
						"03" : -6.0dB
						"04" : -5.5dB
						:
						"0F" : 0.0dB
						:
						"1B" : +6.0dB
				A	Subwoofer	
				Band ID		
				0	63Hz	
				2	160Hz	
				Gain		
				X	X	
						"03" - "1B" 0.5dB Step
						"03" : -6.0dB
						"04" : -5.5dB
						:
						"0F" : 0.0dB
						:
						"1B" : +6.0dB

# Tone Control for Main Zone

0	3	3	0/1/2/3/4	SP/HP	BASS/TRBL	Turn Over	Gain
				0	Speaker		*Effective Only RX-V2700
				1	Headphone		
				0	BASS		
				1	TREBLE		
				0	125Hz / 2.5kHz (BASS / TREBLE)		
				1	350Hz / 3.5kHz		
				2	500Hz / 8.0kHz		
				X	X		
							"00" - "18" 0.5dB Step
							"00" : -6.0dB
							"01" : -5.5dB
							:
							"0C" : 0.0dB
							:
							"18" : +6.0dB

**Parametric EQ\***  
 \*Only RX-V2700

0	3	4	0/1/2/3/4	CH ID	BAND ID	Freq.	Gain	Q
				0	Center			
				1	S.Back			
				2	Front L			
				3	Front R			
				4	Surround L			
				5	Surround R			
				6	S.Back L			
				7	S.Back R			
				8	Presence L			
				9	Presence R			
				BAND ID				
				0	BAND1			
				1	BAND2			
				Freq.		(Hz)		
				0	6	31.3		
				0	8	39.4		
				0	A	49.6		
				0	C	62.5		
				0	E	78.7		
				1	0	99.2		
				1	2	125.0		
				1	4	157.5		
				1	6	198.4		
				1	8	250.0		
				1	A	315.0		
				1	C	396.9		
				1	E	500.0		
				2	0	630.0		
				2	2	793.7		
				2	4	1.00k		
				2	6	1.26k		
				2	8	1.59k		
				2	A	2.00k		
				2	C	2.52k		
				2	E	3.17k		
				3	0	4.00k		
				3	2	5.04k		
				3	4	6.35k		
				3	6	8.00k		
				3	8	10.1k		
				3	A	12.7k		
				3	C	16.0k		
				Gain		"00"-"34"		
				X	X	-20.0dB - +6.0dB 0.5dB Step		
				Q				
					0	0.500		
					1	0.630		
					2	0.794		
					3	1.000		
					4	1.260		
					5	1.587		
					6	2.000		
					7	2.520		
					8	3.175		
					9	4.000		
					A	5.040		
					B	6.350		
					C	8.000		
					D	10.080		
				BAND ID				
				2	BAND3			
				3	BAND4			
				4	BAND5			
				5	BAND6			
				6	BAND7			
				Freq.		(Hz)		
				1	6	198.4		
				1	8	250.0		
				:	:	:		
				3	A	12.7k		
				3	C	16.0k		
				Gain		"00"-"34"		
				X	X	-20.0dB - +6.0dB 0.5dB Step		
				Q				
					0	0.500		
					1	0.630		
					:	:		
					C	8.000		
					D	10.080		
				CH ID				
				A	Subwoofer			
				BAND ID				
				0	BAND1			
				1	BAND2			
				Freq.		(Hz)		
				0	6	31.3		
				0	C	62.5		
				:	:	:		
				1	6	198.4		
				1	8	250.0		
				Gain		"00"-"34"		
				X	X	-20.0dB - +6.0dB 0.5dB Step		
				Q				
					0	0.500		
					1	0.630		
					:	:		
					C	8.000		
					D	10.080		

## +12V Trigger

'0'	'4'	'0'	'0/1/2/3/4'	Terminal ID	Zone ID	Input ID	Data
				0	Terminal1		
				1	Terminal2		
				0	Main		
				1	Zone 2		
				2	Zone 3		
				0	0	PHONO	
				0	1	CD	
				0	2	TUNER	
				0	3	CD-R	
				0	4	MD/TAPE	
				0	5	DVD	
				0	6	DTV	
				0	7	CBL/SAT	
				0	8	SAT	
				0	9	VCR1	
				0	A	DVR/VCR2	
				0	B	VCR3	
				0	C	V-AUX	
				0	D	NET/USB	* Only RX-V2700
				0	E	XM*	* Only USA & Canada
				1	0	Multi CH	
					0	Low	
					1	High	

## Speaker Distance

'0'	'4'	'1'	'0/1/2/3/4'	CH ID	UNIT ID	Distance	Distance	Distance
				0	Center			
				1	S.Back			
				2	Front L			
				3	Front R			
				4	Surround L			
				5	Surround R			
				6	S.Back L			
				7	S.Back R			
				8	Presence L			
				9	Presence R			
				A	Subwoofer			
				0	Meter			
				1	Feet			
					Distance			
					X	X	X	

Meter "01E" - "960"  
( 0.30 - 24.00m 0.01m Step )  
Feet "00A" - "320"  
( 0 - 80ft 0.1ft Step )

## Tuner Station

'0'	'5'	'0'	'0/1/2/3/4'	PAGE	Number	BAND	FREQ.1	FREQ.2	FREQ.3	FREQ.4	FREQ.5	FREQ.6
				0	Current							
				1	Page A							
				2	Page B							
				3	Page C							
				4	Page D							
				5	Page E							
				0	Current							
				1	No. 1							
				2	No. 2							
				3	No. 3							
				4	No. 4							
				5	No. 5							
				6	No. 6							
				7	No. 7							
				8	No. 8							
					Band ID 3							
					0	AM						
					1	FM						
						FREQ.1	FREQ.2	FREQ.3	FREQ.4	FREQ.5	FREQ.6	
					X:'0' - '9' or '.'	X	X	X	X	X	X	
					ex. FM 108.0MHz	'1'	'0'	'8'	'.'	'0'	'0'	
					ex. AM 990kHz	'0'	'0'	'0'	'9'	'9'	'0'	

## XM Preset

'0'	'5'	'1'	'0/1/2/3/4'	PAGE	Number	Station ID
				0	Current	
				1	Page A	
				2	Page B	
				3	Page C	
				4	Page D	
				5	Page E	
				0	Current	
				1	No. 1	
				2	No. 2	
				3	No. 3	
				4	No. 4	
				5	No. 5	
				6	No. 6	
				7	No. 7	
				8	No. 8	
					X	X

"00" - "FF": #0-255  
(#0: undefined behavior)

## Network Setting

'0'	'6'	'0'	'0/1/2/3/4'	ID	DHCP	IP Address	Subnet	Default GW	DNS (P)	DNS (S)
				0	ADDRESS					
				0	OFF					
				1	ON	X	...	X	"00000000" - "FFFFFFF"	00.00.00.00 - 255.255.255.255

## Appendix

## 1. DSP Program ID Table

Program ID		
'0'	'0'	Munich
'0'	'1'	Hall B
'0'	'2'	Hall C
'0'	'3'	
'0'	'4'	Hall D
'0'	'5'	Vienna
'0'	'6'	Live Concert
'0'	'7'	Amsterdam
'0'	'8'	Tokyo
'0'	'9'	Freiburg
'0'	'A'	Royaumont
'0'	'B'	Chamber
'0'	'C'	Village Gate
'0'	'D'	Village Vanguard
'0'	'E'	The Bottom Line
'0'	'F'	Cellar Club
'1'	'0'	The Roxy Theatre
'1'	'1'	Warehouse Loft
'1'	'2'	Arena
'1'	'3'	
'1'	'4'	Disco
'1'	'5'	Party
'1'	'6'	Game
'1'	'7'	7ch Stereo
'1'	'8'	Music Video
'1'	'9'	DJ
'1'	'A'	
'1'	'B'	
'1'	'C'	Recital/Opera
'1'	'D'	Pavilion
'1'	'E'	Action Game
'1'	'F'	Roleplaying Game
'2'	'0'	Mono Movie
'2'	'1'	Sports
'2'	'2'	
'2'	'3'	
'2'	'4'	Spectacle
'2'	'5'	Sci-Fi
'2'	'6'	
'2'	'7'	
'2'	'8'	Adventure
'2'	'9'	Drama
'2'	'A'	
'2'	'B'	
'2'	'C'	Surround Decode
'2'	'D'	Standard
'2'	'E'	
'2'	'F'	
'3'	'0'	Pro Logic II Movie
'3'	'1'	Pro Logic II Music
'3'	'2'	NEO:6 Cinema
'3'	'3'	NEO:6 Music
'3'	'4'	2ch Stereo
'3'	'5'	DIRECT STEREO
'3'	'6'	THX Cinema ( Select2 )
'3'	'7'	THX Music
'3'	'8'	
'3'	'9'	HALL F
'3'	'A'	HALL G
'3'	'B'	HALL H
'3'	'C'	THX Game
'4'	'0'	Enhancer 2ch Low
'4'	'1'	Enhancer 2ch High
'4'	'2'	Enhancer 7ch Low
'4'	'3'	Enhancer 7ch High
'8'	'0'	STRAIGHT

## 2. Input ID Table

Input ID		
'0'	'0'	PHONO
'0'	'1'	CD
'0'	'2'	TUNER
'0'	'3'	CD-R
'0'	'4'	MD/TAPE
'0'	'5'	DVD
'0'	'6'	DTV
'0'	'7'	CBL/SAT
'0'	'8'	SAT
'0'	'9'	VCR1
'0'	'A'	DVR/VCR2
'0'	'B'	VCR3
'0'	'C'	V-AUX
'0'	'D'	NET/USB * Only RX-V2700
'0'	'E'	XM* * Only USA & Canada
'1'	'0'	Multi CH
'2'	'0'	DOCK
'2'	'1'	PC/MCX* * Only RX-V2700
'2'	'2'	NET Radio * Only RX-V2700
'2'	'3'	USB* * Only RX-V2700

## 3. Channel ID Table

CH ID		
'0'		Center
'1'		S.Back
'2'		Front L
'3'		Front R
'4'		Surround L
'5'		Surround R
'6'		Surround Back L
'7'		Surround Back R
'8'		Presence L
'9'		Presence R
'A'		Subwoofer