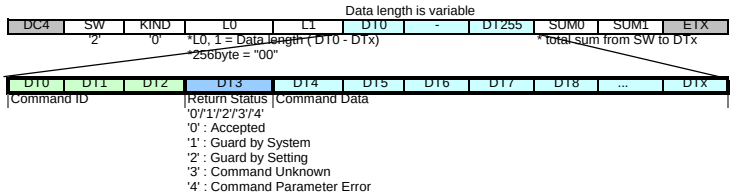
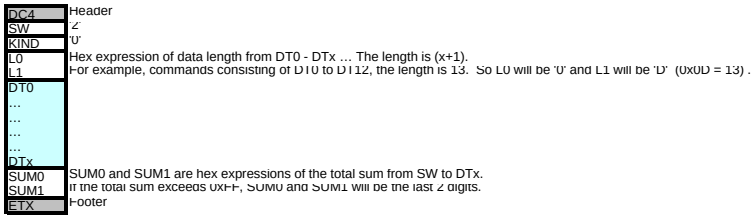
RX-Vx600 Extended RS-232C Protocol

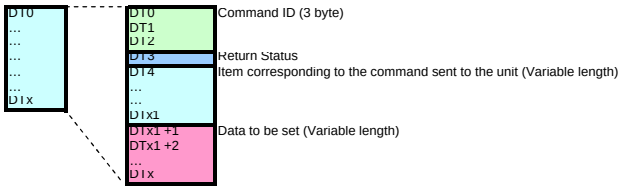
Return Commands from Slave to Host

'0'/'1'/'2'/'3'/'4'
'0' : Accepted
'1' : Guard by System
'2' : Guard by Setting
'3' : Command Unknown
'4' : Command Parameter Error

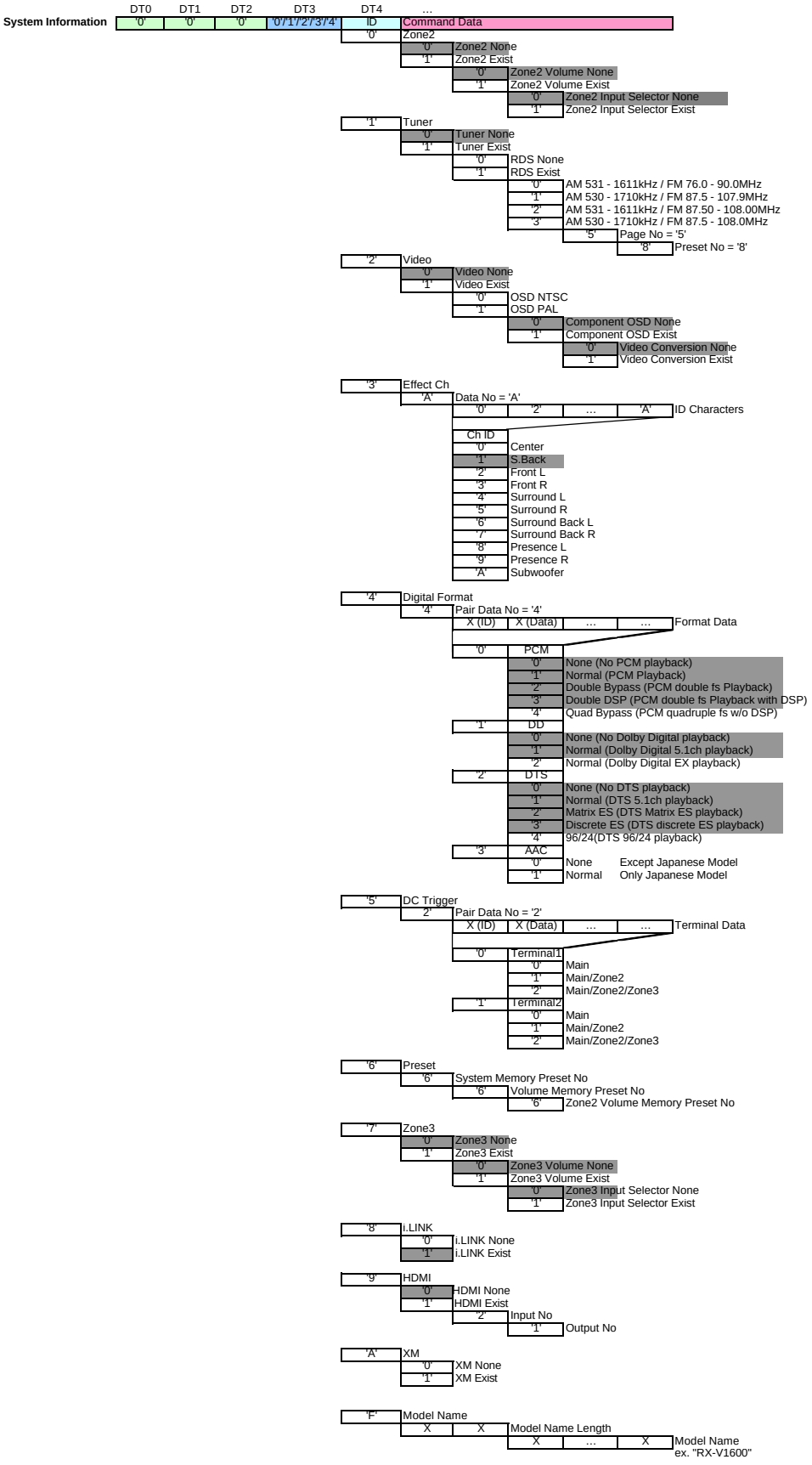




Following is the data structure from DT0 to DTx.



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


DT0 DT1 DT2 DT3 DT4 ...
System Information
'0' '0' '0' '0'/'1'/'2'/'3'/'4' ID Command Data
'0' Zone2
'0' Zone2 None
'1' Zone2 Exist
'0' Zone2 Volume None
'1' Zone2 Volume Exist
'0' Zone2 Input Selector None
'1' Zone2 Input Selector Exist
'1' Tuner
'0' Tuner None
'1' Tuner Exist
'0' RDS None
'1' RDS Exist
'0' AM 531 - 1611kHz / FM 76.0 - 90.0MHz
'1' AM 530 - 1710kHz / FM 87.5 - 107.9MHz
'2' AM 531 - 1611kHz / FM 87.50 - 108.00MHz
'3' AM 530 - 1710kHz / FM 87.5 - 108.0MHz
'5' Page No = '5'
'8' Preset No = '8'
'2' Video
'0' Video None
'1' Video Exist
'0' OSD NTSC
'1' OSD PAL
'0' Component OSD None
'1' Component OSD Exist
'0' Video Conversion None
'1' Video Conversion Exist
'3' Effect Ch
'A' Data No = 'A'
'0' '2' ... 'A' ID Characters
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
'4' Digital Format
'4' Pair Data No = '4'
X (ID) X (Data) ... ... Format Data
'0' PCM
'0' None (No PCM playback)
'1' Normal (PCM Playback)
'2' Double Bypass (PCM double fs Playback)
'3' Double DSP (PCM double fs Playback with DSP)
'4' Quad Bypass (PCM quadruple fs w/o DSP)
'1' DD
'0' None (No Dolby Digital playback)
'1' Normal (Dolby Digital 5.1ch playback)
'2' Normal (Dolby Digital EX playback)
'2' DTS
'0' None (No DTS playback)
'1' Normal (DTS 5.1ch playback)
'2' Matrix ES (DTS Matrix ES playback)
'3' Discrete ES (DTS discrete ES playback)
'4' 96/24(DTS 96/24 playback)
'3' AAC
'0' None Except Japanese Model
'1' Normal Only Japanese Model
'5' DC Trigger
'2' Pair Data No = '2'
X (ID) X (Data) ... ... Terminal Data
'0' Terminal1
'0' Main
'1' Main/Zone2
'2' Main/Zone2/Zone3
'1' Terminal2
'0' Main
'1' Main/Zone2
'2' Main/Zone2/Zone3
'6' Preset
'6' System Memory Preset No
'6' Volume Memory Preset No
'6' Zone2 Volume Memory Preset No
'7' Zone3
'0' Zone3 None
'1' Zone3 Exist
'0' Zone3 Volume None
'1' Zone3 Volume Exist
'0' Zone3 Input Selector None
'1' Zone3 Input Selector Exist
'8' i.LINK
'0' i.LINK None
'1' i.LINK Exist
'9' HDMI
'0' HDMI None
'1' HDMI Exist
'2' Input No
'1' Output No
'A' XM
'0' XM None
'1' XM Exist
'F' Model Name
X X Model Name Length
X ... X Model Name
ex. "RX-V1600"

Input Information

'0'	'0'	'1'	'0'/'1'/'2'/'3'/'4'	ID	Data Number	Command Data	Command Data
				'0'	SP OUT		
					0' X	Data No	

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

'1'	Audio Input Analog
'4'	Audio Input D.D.RF
'5'	Video Input Composite / S
'7'	Audio Output Analog
'9'	Video Output Composite / S

'0'	X	Data No	
		Input ID	Input ID

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'	Multi CH
'0'	'E'	XM* * Only USA & Canada

'2'	Audio Input Optical
'3'	Audio Input Coaxial
'6'	Video Input Component
'8'	Audio Output Optical

'0'	X	Data No	
		Terminal ID	Terminal ID

Terminal ID		
'0'	'0'	1 or A
'0'	'1'	2 or B
'0'	'2'	3 or C
'0'	'3'	4 or D
'0'	'4'	5 or E
'0'	'5'	6 or F

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* *Only RX-V2600
'0'	'1'	Hall B
'0'	'2'	Hall C
'0'	'3'	
'0'	'4'	Hall D
'0'	'5'	Vienna
'0'	'6'	Live Concert
'0'	'7'	
'0'	'8'	Tokyo
'0'	'9'	Freiburg*
'0'	'A'	Royaumont
'0'	'B'	
'0'	'C'	Village Gate
'0'	'D'	Village Vanguard
'0'	'E'	The Bottom Line
'0'	'F'	
'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'	Pop/Rock
'1'	'9'	DJ
'1'	'A'	
'1'	'B'	
'1'	'C'	Classical / Opera*
'1'	'D'	Pavilion
'1'	'E'	
'1'	'F'	
'2'	'0'	Mono Movie
'2'	'1'	TV Sports
'2'	'2'	
'2'	'3'	
'2'	'4'	Spectacle
'2'	'5'	Sci-Fi
'2'	'6'	
'2'	'7'	
'2'	'8'	Adventure
'2'	'9'	General
'2'	'A'	
'2'	'B'	
'2'	'C'	Standard
'2'	'D'	Enhanced
'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
'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

'0'	'0'	'3'	'0'/'1'/'2'/'3'/'4'	ID	History	Character Length		Command Data			
				'1'	Channel Name						
					'0'	Current					
					'1'	History1					
					'2'	History2					
						'1'	'0'	"10" means 16 characters.			
								X	...	X	Channel Name ex. "Deep Tracks "
				'2'	Category Name						
					'0'	Current					
					'1'	History1					
					'2'	History2					
						'1'	'0'	"10" means 16 characters.			
								X	...	X	Category Name ex. " Rock "
				'3'	Artist Name						
					'0'	Current					
					'1'	History1					
					'2'	History2					
						'1'	'0'	"10" means 16 characters.			
								X	...	X	Artist Name ex. " Rock "
				'4'	Song Name						
					'0'	Current					
					'1'	History1					
					'2'	History2					
						'1'	'0'	"10" means 16 characters.			
								X	...	X	Song Name

I/O Assign

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

Rename

'0'	'1'	'1'	'0'/'1'/'2'/'3'/'4'	Rename ID	SUB ID 1	SUB ID2	Data No. 1	Data No. 2	Command Data
				'0'					
					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'	Multi CH		
					'0'	'E'	XM*	* Only USA & Canada	
							Character Length.		
							'0'	'8'	"08" means 8 characters.
									New Name (8 characters)
									X ... X

Volume Trim

'0'	'1'	'2'	'0'/'1'/'2'/'3'/'4'	Input ID	Trim Value		
				'0'	PHONO		
				'1'	CD		
				'2'	TUNER		
				'3'	CD-R		
				'4'	MD/TAPE		
				'5'	DVD		
				'6'	DTV		
				'7'	CBL/SAT		
				'8'	SAT		
				'9'	VCR1		
				'A'	DVR/VCR2		
				'B'	VCR3		
				'C'	V-AUX		
				'D'	Multi CH		
				'E'	XM*	* Only USA & Canada	
					Trim Value		
					X	X	"00"-"18" "00":-6.0dB "01" :-5.5dB : "18":+6.0dB

User Parameter

'0'	'2'	'0'	'0'/'1'/'2'/'3'/'4'

DSP ID		Parameter ID	Parameter Data
'0'	'0'	Munich*	*Only RX-V2600
'0'	'1'	Hall B	
'0'	'2'	Hall C	
'0'	'3'		
'0'	'4'	Hall D	
'0'	'5'	Vienna	
'0'	'6'	Live Concert	
'0'	'7'		
'0'	'8'	Tokyo	
'0'	'9'	Freiburg*	
'0'	'A'	Royaumont	
'0'	'B'		
'0'	'C'	Village Gate	
'0'	'D'	Village Vanguard	
'0'	'E'	The Bottom Line	
'0'	'F'		
'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'	Pop/Rock	
'1'	'9'	DJ	
'1'	'A'		
'1'	'B'		
'1'	'C'	Classical / Opera*	
'1'	'D'	Pavilion	
'1'	'E'		
'1'	'F'		
'2'	'0'	Mono Movie	
'2'	'1'	TV Sports	
'2'	'2'		
'2'	'3'		
'2'	'4'	Spectacle	
'2'	'5'	Sci-Fi	
'2'	'6'		
'2'	'7'		
'2'	'8'	Adventure	
'2'	'9'	General	
'2'	'A'		
'2'	'B'		
'2'	'C'	Standard	
'2'	'D'	Enhanced	
'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	
'8'	'0'	STRAIGHT	

Parameter ID		Parameter Data
'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

*SRS CSII Parameter: Only Japan

Parameter Data	See Next Page

User Parameter

'0'	'2'	'0'	'0'/'1'/'2'/'3'/'4'	DSP ID	Parameter ID	Parameter Data		
				See Previous Page	P. Init. Delay	X	X	"01" - "63"
					P. Room Size	X	X	"01" - "14"
					P. Liveness	'0'	X	"00" - "0A"
					S. Delay (2ch)	X	X	"0A" - "19"
					S. Delay (Multi ch)	X	X	"00" - "0F"
					S. Init Delay	X	X	"01" - "31"
					S. Room Size	X	X	"01" - "14"
					S. Liveness	'0'	X	"00" - "0A"
					SB. Init. Delay	X	X	"01" - "31"
					SB Room Size	X	X	"01" - "14"
					SB Liveness	'0'	X	"00" - "0A"
					Rev. Time	X	X	"0A"- "32"
					Rev. Delay	X	X	"00" - "FA"
					Rev. Level	X	X	"00" - "64"
					DSP Level	'0'	X	"00" - "09"
					Panorama	'0'	X	"00" - "01" 00:Off / 01:On
					Dimension	'0'	X	"00" - "06"
					CT Width	'0'	X	"00" - "07"
					C. Image	'0'	X	"00" - "05"
					CT Level	X	X	"00" - "64"
					SL Level	X	X	"00" - "64"
					SB Level	X	X	"00" - "64"
					SR Level	X	X	"00" - "64"
					PL Level	X	X	"00" - "64"
					PR Level	X	X	"00" - "64"
					SBL LEVEL	X	X	"00" - "64"
					SBR LEVEL	X	X	"00" - "64"
					Decoder Type	'0'	X	"00" - "08"
					DIAL LIFT	'0'	X	"00" - "05"
					2CH DECODE	X	X	
					Pro Logic / PLIIx	'0'	X	"00" - "01"
					FOCUS*	'0'	X	"00" - "08"
					TruBass*	'0'	X	"00" - "08"
					Direct	'0'	X	"00" - "01" 00:Off / 01:On

Decoder Type	
00: Pro Logic	
01: PL2 Movie	
02: PL2 Music	
03: PL2 Game	
04: Neo6 Cinema	
05: Neo6 Music	
06: PLIIx Movie	
07: PLIIx Music	
08: PLIIx Game	
09: CSII Cinema*	
0A: CSII Music*	*Only Japan

Maker Parameter

'0'	'2'	'1'	'0'/'1'/'2'/'3'/'4'	DSP ID**		Parameter ID**	Type	Parameter Data**
				'0'	'0'	Munich*	* Only RX-V2600	
				:	:	:	** Same as "User Parameter"	
				'8'	'0'	STRAIGHT		

Parameter ID**		** Same as "User Parameter"
'0'	'0'	P. Init. Delay
:	:	:
'2'	'4'	Direct

Type	
'0'	Current Sound Field Processing
'1'	Parameters for Dual-Field Processing
'2'	Parameters for Tri-Field Processing
'5'	Parameters for Quad-Field Processing

	Parameter Data**		** Same as
P. Init. Delay	'0'	X	"User Parameter"
	:	:	
Decoder Type	'0'	X	
	:	:	
Direct	'0'	X	

Parameter Initialize

'0'	'2'	'2'	'0'/'1'/'2'/'3'/'4'	DSP ID		STATUS
				'0'	'0'	Munich* *Only RX-V2600
				'0'	'1'	Hall B
				'0'	'2'	Hall C
				'0'	'3'	
				'0'	'4'	Hall D
				'0'	'5'	Vienna
				'0'	'6'	Live Concert
				'0'	'7'	
				'0'	'8'	Tokyo
				'0'	'9'	Freiburg*
				'0'	'A'	Royaumont
				'0'	'B'	
				'0'	'C'	Village Gate
				'0'	'D'	Village Vanguard
				'0'	'E'	The Bottom Line
				'0'	'F'	
				'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'	Pop/Rock
				'1'	'9'	DJ
				'1'	'A'	
				'1'	'B'	
				'1'	'C'	Classical / Opera*
				'1'	'D'	Pavilion
				'1'	'E'	
				'1'	'F'	
				'2'	'0'	Mono Movie
				'2'	'1'	TV Sports
				'2'	'2'	
				'2'	'3'	
				'2'	'4'	Spectacle
				'2'	'5'	Sci-Fi
				'2'	'6'	
				'2'	'7'	
				'2'	'8'	Adventure
				'2'	'9'	General
				'2'	'A'	
				'2'	'B'	
				'2'	'C'	Standard
				'2'	'D'	Enhanced
				'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
				'8'	'0'	STRAIGHT

STATUS	
'0'	Default
'1'	Customized

Graphic EQ*
***RX-V1600**

'0'	'3'	'0'	'0'/'1'/'2'/'3'/'4'	CH ID	Band ID	Gain	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		
				'A'	Subwoofer		

Band ID	
'0'	63Hz
'2'	160Hz
'4'	400Hz
'6'	1kHz
'8'	2.5kHz
'A'	6.3kHz
'C'	16kHz

Gain	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	Gain
				'0'	Speaker			
				'1'	Headphone			

*Effective Only RX-V2600

'0'	BASS
'1'	TREBLE

'0'	125Hz / 2.5kHz (BASS / TREBLE)
'1'	350Hz / 3.5kHz
'2'	500Hz / 8.0kHz

Gain	Gain	
X	X	"00" - "18" 0.5dB Step

"00" : -6.0dB
"01" : -5.5dB
:
"0C" : 0.0dB
:
"18" : +6.0dB

Parametric EQ*
*Only RX-V2600

'0'	'3'	'4'	'0'/'1'/'2'/'3'/'4'	CH ID	BAND ID	Freq.	Freq.	Gain	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
'2'	BAND3
'3'	BAND4
'4'	BAND5
'5'	BAND6
'6'	BAND7

Freq.	Freq.	(Hz)
'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	Gain	
X	X	"00"-"34" -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

Channel Mute*
*Only RX-V2600

'0'	'3'	6'	'0'/'1'/'2'/'3'/'4'	MUTE	NUM	CH ID1	STATUS1	CH ID2	STATUS2	....	CH ID N	STATUS N
				'0'	MUTE OF	1st Channel Info.		2nd Channel Info.			N th Channel Info.	
				'1'	MUTE ON							

NUM
- N — Number of CH ID/STATUS: N '0' - 'A'

CH ID
- '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

STATUS
- '0' Mute Off
- '1' Mute On

DC Trigger

'0'	'4'	'0'	'0'/'1'/'2'/'3'/'4'	Terminal ID	Zone ID	Input ID	Data
				'0'	Terminal1		
				'1'	Terminal2		

Zone ID
- '0' Main Zone
- '1' Zone 2
- '2' Zone 3

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

Data
- '0' Off
- '1' On

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			

UNIT ID
- '0' Meter
- '1' Feet

Distance	Distance	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							

Number
- '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
FM 108.0MHz	'1'	'0'	'8'	'.'	'0'	'0'
AM 990kHz	'0'	'0'	'0'	'9'	'9'	'0'

XM Preset

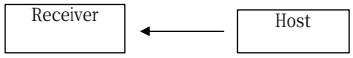
'0'	'5'	'1'	'0'/'1'/'2'/'3'/'4'	PAGE	Number	Station ID	
				'0'	Current		
				'1'	Page A		
				'2'	Page B		
				'3'	page C		
				'4'	Page D		
				'5'	Page E		

Number
- '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

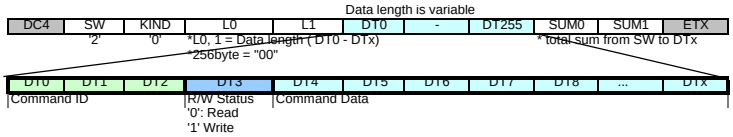
X	X	"00" - "FF": #0-255 (#0: undefined behavior)

RX-Vx600 Extended RS-232C Protocol

Commands from Host to Slave (Receiver)



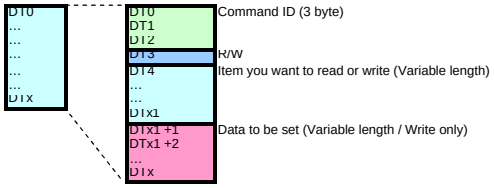
Extended command from the host to the receiver consists of the bytes as illustrated below.



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

DC4	Header
SW	'2'
KIND	'0'
L0 L1	Hex expression of data length from DT0 - DTx … The length is (x+1). For example, commands consisting of DT0 to DT12, the length is 13. So L0 will be '0' and L1 will be 'D' (0x0D = 13) .
DT0 … … … … DTx	
SUM0 SUM1	SUM0 and SUM1 are hex expressions of the total sum from SW to DTx. If the total sum exceeds 0xFF, SUM0 and SUM1 will be the last 2 digits.
ETX	Footer

Following is the data structure from DT0 to DTx.



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

System Information

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

Input Information

DT0	DT1	DT2	DT3	DT4	
'0'	'0'	'1'	'0' Read Only	ID	
				'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

DSP Information

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

XM Information
only USA & Canada

DT0	DT1	DT2	DT3	DT4		
'0'	'0'	'3'	'0' Read Only	ID		
				'0'	Antenna*	* Effective in Set Menu "XM RADIO SET"
				ID	History	
				'1'	Channel Name**	** Effective when XM Display is held.
				'2'	Category Name**	
				'3'	Artist Name**	
				'4'	Song Name**	
					'0' Current	
					'1' History1	
					'2' History2	

I/O Assign

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

Rename

'0'	'1'	'1'	'0' / '1'	Rename ID	SUB ID 1	SUB ID2	Data No. 1	Data No. 2	Command Data
				'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*		* Only USA & Canada
					'0'	'F'			
							Character No.		
							X	X	character number (= "08")
									New Name (8 characters)
									X ... X

Volume Trim

'0'	'1'	'2'	'0' / '1'	Input ID	Trim Value
				'0'	PHONO
				'1'	CD
				'2'	TUNER
				'3'	CD-R
				'4'	MD/TAPE
				'5'	DVD
				'6'	DTV
				'7'	CBL/SAT
				'8'	SAT
				'9'	VCR1
				'A'	DVR/VCR2
				'B'	VCR3
				'C'	V-AUX
				'D'	Multi CH
				'E'	XM* * Only USA & Canada
					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'	Munich*	* Only RX-V2600
'0'	'1'	Hall B	
'0'	'2'	Hall C	
'0'	'3'		
'0'	'4'	Hall D	
'0'	'5'	Vienna	
'0'	'6'	Live Concert	
'0'	'7'		
'0'	'8'	Tokyo	
'0'	'9'	Freiburg*	
'0'	'A'	Royaumont	
'0'	'B'		
'0'	'C'	Village Gate	
'0'	'D'	Village Vanguard	
'0'	'E'	The Bottom Line	
'0'	'F'		
'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'	Pop/Rock	
'1'	'9'	DJ	
'1'	'A'		
'1'	'B'		
'1'	'C'	Classical / Opera*	
'1'	'D'	Pavilion	
'1'	'E'		
'1'	'F'		
'2'	'0'	Mono Movie	
'2'	'1'	TV Sports	
'2'	'2'		
'2'	'3'		
'2'	'4'	Spectacle	
'2'	'5'	Sci-Fi	
'2'	'6'		
'2'	'7'		
'2'	'8'	Adventure	
'2'	'9'	General	
'2'	'A'		
'2'	'B'		
'2'	'C'	Standard	
'2'	'D'	Enhanced	
'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	
'8'	'0'	STRAIGHT	

Parameter ID		Parameter Data	
'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*	*SRS CSII Parameter: Only Japan
'2'	'2'	TruBass*	
'2'	'4'	Direct	
		Parameter Data	See Next Page

User Parameter

'0'	'2'	'0'	'0' / '1'	DSP ID	Parameter ID	Parameter Data		
				See Previous Page	P. Init. Delay	X	X	"01" - "63"
					P. Room Size	X	X	"01" - "14"
					P. Liveness	'0'	X	"00" - "0A"
					S. Delay (2ch)	X	X	"0A" - "19"
					S. Delay (Multi ch)	X	X	"00" - "0F"
					S. Init Delay	X	X	"01" - "31"
					S. Room Size	X	X	"01" - "14"
					S. Liveness	'0'	X	"00" - "0A"
					SB. Init. Delay	X	X	"01" - "31"
					SB Room Size	X	X	"01" - "14"
					SB Liveness	'0'	X	"00" - "0A"
					Rev. Time	X	X	"0A"- "32"
					Rev. Delay	X	X	"00" - "FA"
					Rev. Level	X	X	"00" - "64"
					DSP Level	'0'	X	"00" - "09"
					Panorama	'0'	X	"00" - "01" 00:Off / 01:On
					Dimension	'0'	X	"00" - "06"
					CT Width	'0'	X	"00" - "07"
					C. Image	'0'	X	"00" - "05"
					CT Level	X	X	"00" - "64"
					SL Level	X	X	"00" - "64"
					SB Level	X	X	"00" - "64"
					SR Level	X	X	"00" - "64"
					PL Level	X	X	"00" - "64"
					PR Level	X	X	"00" - "64"
					SBL LEVEL	X	X	"00" - "64"
					SBR LEVEL	X	X	"00" - "64"
					Decoder Type	'0'	X	"00" - "08"
					DIAL LIFT	'0'	X	"00" - "05"
					2CH DECODE	X	X	
					Pro Logic / PLIIx	'0'	X	"00" - "01"
					FOCUS*	'0'	X	"00" - "08"
					TruBass*	'0'	X	"00" - "08"
					Direct	'0'	X	"00" - "01" 00:Off / 01:On

00: Pro Logic
01: PL2 Movie
02: PL2 Music
03: PL2 Game
04: Neo6 Cinema
05: Neo6 Music
06: PLIIx Movie
07: PLIIx Music
08: PLIIx Game
09: CSII Cinema*
0A: CSII Music* *Only Japan

Maker Parameter

'0'	'2'	'1'	'0' / '1'	DSP ID**		Parameter ID**	Type	Parameter Data**
				'0'	'0'	Munich*	* Only RX-V2600	
				:	:	:	** Same as "User Parameter"	
				'8'	'0'	STRAIGHT		

Parameter ID**		
'0'	'0'	P. Init. Delay
:	:	:
'2'	'4'	Direct

** Same as "User Parameter"

Type	
'0'	Current Sound Field Processing
'1'	Parameters for Dual-Field Processing
'2'	Parameters for Tri-Field Processing
'5'	Parameters for Quad-Field Processing

	Parameter Data**		** Same as
P. Init. Delay	'0'	X	"User Parameter"
:	:	:	
Direct	'0'	X	

Parameter Initialize

'0'	'2'	'2'	'0' / '1'	DSP ID		
				'0'	'0'	Munich* * Only RX-V2600
				'0'	'1'	Hall B
				'0'	'2'	Hall C
				'0'	'3'	
				'0'	'4'	Hall D
				'0'	'5'	Vienna
				'0'	'6'	Live Concert
				'0'	'7'	
				'0'	'8'	Tokyo
				'0'	'9'	Freiburg*
				'0'	'A'	Royaumont
				'0'	'B'	
				'0'	'C'	Village Gate
				'0'	'D'	Village Vanguard
				'0'	'E'	The Bottom Line
				'0'	'F'	
				'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'	Pop/Rock
				'1'	'9'	DJ
				'1'	'A'	
				'1'	'B'	
				'1'	'C'	Classical / Opera*
				'1'	'D'	Pavilion
				'1'	'E'	
				'1'	'F'	
				'2'	'0'	Mono Movie
				'2'	'1'	TV Sports
				'2'	'2'	
				'2'	'3'	
				'2'	'4'	Spectacle
				'2'	'5'	Sci-Fi
				'2'	'6'	
				'2'	'7'	
				'2'	'8'	Adventure
				'2'	'9'	General
				'2'	'A'	
				'2'	'B'	
				'2'	'C'	Standard
				'2'	'D'	Enhanced
				'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
				'8'	'0'	STRAIGHT

Graphic EQ*
***RX-V1600**

'0'	'3'	'0'	'0' / '1'	CH ID	Band ID	Gain	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		
				'A'	Subwoofer		

Band ID	
'0'	63Hz
'2'	160Hz
'4'	400Hz
'6'	1kHz
'8'	2.5kHz
'A'	6.3kHz
'C'	16kHz

Gain	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	Gain
				'0'	Speaker			
				'1'	Headphone			

*Effective only for RX-V2600

'0'	BASS
'1'	TREBLE

'0'	125Hz / 2.5kHz (BASS / TREBLE)
'1'	350Hz / 3.5kHz
'2'	500Hz / 8.0kHz

Gain	Gain	
X	X	"00" - "18" 0.5dB Step "00" : -6.0dB "01" : -5.5dB : "0C" : 0.0dB : "18" : +6.0dB

Parametric EQ*
*Only RX-V2600

'0'	'3'	'4'	'0' / '1'	CH ID	BAND ID	Freq.	Freq.	Gain	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
'2'	BAND3
'3'	BAND4
'4'	BAND5
'5'	BAND6
'6'	BAND7

Freq.	Freq.	(Hz)
'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	Gain	"00"-"34" -20.0dB - +6.0dB 0.5dB Step
X	X	

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

Channel Mute*
*Only RX-V2600

'0'	'3'	6'	'0' / '1'	MUTE	NUM	CH ID1	STATUS1	CH ID2	STATUS2	….	CH ID N	STATUS N
				'0'	MUTE OF	1st Channel Info.		2nd Channel Info.			N th Channel Info.	
				'1'	MUTE ON							

NUM
- N: Number of CH ID/STATUS: N '0' - 'A'

CH ID
- '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

STATUS
- '0': Mute Off
- '1': Mute On

DC Trigger

'0'	'4'	'0'	'0' / '1'	Terminal ID	Zone ID	Input ID	Data

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

Speaker Distance

'0'	'4'	'1'	'0' / '1'	CH ID	UNIT ID	Distance	Distance	Distance

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

- PAGE '0': Current
- PAGE '1': Page A
- PAGE '2': Page B
- PAGE '3': page C
- PAGE '4': Page D
- PAGE '5': Page E
- Number '0': Current
- Number '1': No. 1
- Number '2': No. 2
- Number '3': No. 3
- Number '4': No. 4
- Number '5': No. 5
- Number '6': No. 6
- Number '7': No. 7
- Number '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

- PAGE '0': Current
- PAGE '1': Page A
- PAGE '2': Page B
- PAGE '3': page C
- PAGE '4': Page D
- PAGE '5': Page E
- Number '0': Current
- Number '1': No. 1
- Number '2': No. 2
- Number '3': No. 3
- Number '4': No. 4
- Number '5': No. 5
- Number '6': No. 6
- Number '7': No. 7
- Number '8': No. 8

Station ID	
X	X

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

Appendix

1. DSP Program ID Table

Program ID		*Only RX-V2600
'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'	
'0'	'8'	Tokyo
'0'	'9'	Freiburg*
'0'	'A'	Royaumont
'0'	'B'	
'0'	'C'	Village Gate
'0'	'D'	Village Vanguard
'0'	'E'	The Bottom Line
'0'	'F'	
'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'	Pop/Rock
'1'	'9'	DJ
'1'	'A'	
'1'	'B'	
'1'	'C'	Classical / Opera*
'1'	'D'	Pavilion
'1'	'E'	
'1'	'F'	
'2'	'0'	Mono Movie
'2'	'1'	TV Sports
'2'	'2'	
'2'	'3'	
'2'	'4'	Spectacle
'2'	'5'	Sci-Fi
'2'	'6'	
'2'	'7'	
'2'	'8'	Adventure
'2'	'9'	General
'2'	'A'	
'2'	'B'	
'2'	'C'	Standard
'2'	'D'	Enhanced
'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
'8'	'0'	STRAIGHT

2. Input ID Table

Input ID	
'0'	PHONO
'1'	CD
'2'	TUNER
'3'	CD-R
'4'	MD/TAPE
'5'	DVD
'6'	DTV
'7'	CBL/SAT
'8'	SAT
'9'	VCR1
'A'	DVR/VCR2
'B'	VCR3
'C'	V-AUX
'D'	Multi CH
'E'	XM*

* Only USA & Canada

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