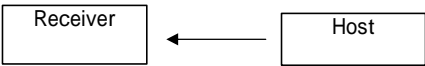
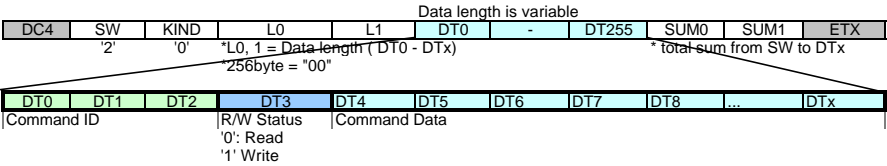


RX-V4600 Extended RS-232C Protocol Rev.1

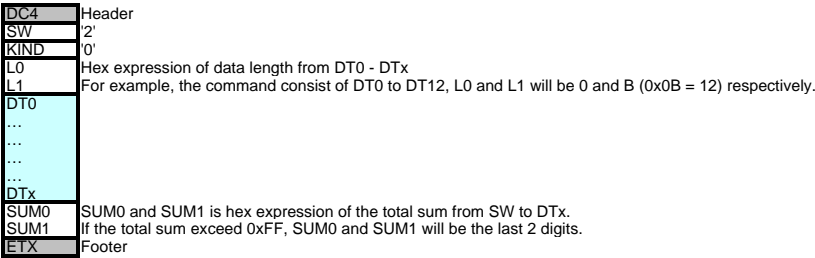
Commands from Host to Slave(Receiver)



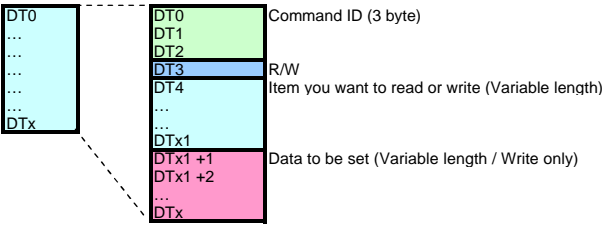
Extended command from the host to the receiver consist of the bytes as illustrated below.



When you read ore write some 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 the DT0 to DTx byte will be illustrated.

System Information	DT0	DT1	DT2	DT3	DT4	...				
	'0'	'0'	'0'	'0'	ID					
	Read Only				'0'	Zone2				
					'1'	Tuner				
					'2'	OSD Format				
					'3'	Effect ch				
					'4'	Digital Format				
					'5'	DC Trigger				
					'6'	Preset				
					'7'	Zone3				
Input Information	'0'	'0'	'1'	'0'	ID	Read Only				
	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 Optioal				
				'9'	Video Output Composite / S					
DSP Information	'0'	'0'	'2'	'0'	ID	Read Only				
	Read Only				'0'	Program				
					'1'	User Parameters				
					'2'	Default Parameters				
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'	i.Link				
					'5'	HDMI				
					No					
					'0'		1	or		A
					'1'		2	or		B
					'2'		3	or		C
					'3'		4			
					'4'		5			
					'5'		6			
					Input ID					
					'0'			Phono		
					'1'			CD		
					'2'			Tuner		
					'3'			CD-R		
					'4'			MD/Tape		
					'5'			DVD		
					'6'			D-TV/LD		
					'7'			CBL/SAT		
					'8'			SAT		
					'9'			VCR1		
					'A'			VCR2/DVR		
					'B'			VCR3		
					'C'			V-AUX		
					'D'			LD-RF		

Rename

'0'	'1'	'1'	'0' / '1'	Rename	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'	D-TV/LD			
				'0'	'7'	CBL/SAT			
				'0'	'8'	SAT			
				'0'	'9'	VCR1			
				'0'	'A'	VCR2/DVR			
				'0'	'B'	VCR3			
				'0'	'C'	V-AUX			
				'0'	'D'	LD-RF			
						Character No.			
						'X'	'X'	character number (= "08")	
						New Name (8 characters)			
						'X'	...	'X'	

Input Trim

'0'	'1'	'2'	'0' / '1'	Rename	SUB ID 1	SUB ID2	Data 1	Data 2
				'0'				
				Read '0'				
				Write '1'				
				Input				
				'0'	'0'	Phono		
				'0'	'1'	CD		
				'0'	'2'	Tuner		
				'0'	'3'	CD-R		
				'0'	'4'	MD/Tape		
				'0'	'5'	DVD		
				'0'	'6'	D-TV/LD		
				'0'	'7'	Cable		
				'0'	'8'	SAT		
				'0'	'9'	VCR1		
				'0'	'A'	VCR2		
				'0'	'B'	DVR		
				'0'	'C'	V-AUX		
				'0'	'D'	Multi Ch		
				'1'	'E'	2ch (Pure)		
						Trim Value		
						'X'	'X'	'00' - '18'

User Parameter

'0'	'2'	'0'	'0' / '1'	DSP ID		Parameter ID	Parameter Data
* See Appendix 1 for the DSP Program ID for each Model.				'0'	'0'	Hall A	
				'0'	'1'	Hall B	
				'0'	'2'	Hall C	
				'0'	'3'		
				'0'	'4'	Hall D	
				'0'	'5'	Hall E	
				'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'	Roxy Theatre	
				'1'	'1'	Warehouse Loft	
				'1'	'2'	Arena	
				'1'	'3'		
				'1'	'4'	Disco	
				'1'	'5'	Party	
				'1'	'6'	Game	
				'1'	'7'	5/6/8 ch 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'	Variety / 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'	Normal	
				'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 (ULTRA2)	
				'3'	'7'		
				'3'	'8'		
				'3'	'9'	HALL F	
				'3'	'A'	HALL G	
				'3'	'B'	HALL H	
				'3'	'C'	THX GAME	
				'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'	RC. Init. Delay
'0'	'9'	RC Room Size
'0'	'A'	RC 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'	RL Level
'1'	'5'	RC Level
'1'	'6'	RR Level
'1'	'7'	FL Level
'1'	'8'	FR Level
'1'	'9'	SBL LEVEL
'1'	'A'	SBR LEVEL
'1'	'B'	MATRIX
'1'	'C'	DIAL LIFT
'1'	'D'	2CH DECODE
'1'	'E'	Pro Logic / PLIIx
'2'	'F'	FOCUS ON/OFF
'2'	'0'	FOCUS LEVEL
'2'	'1'	TruBass MODE
'2'	'2'	TruBass LEVEL
'2'	'3'	TruBass SP SIZE

		Parameter Data	
P. Init. Delay	'X'	'X'	"01" - "63"
P. Room Size	'X'	'X'	"01" - "14"
P. Liveness	'X'	'X'	"00" - "0A"
S. Delay (2ch)	'X'	'X'	"0A" - "19"
S. Delay (Multi ch)	'X'	'X'	"00" - "0F"
S. Init Delay	'X'	'X'	"00" - "1E"
S. Room Size	'X'	'X'	"01" - "31"
S. Liveness	'X'	'X'	"00" - "0A"
RC. Init. Delay	'X'	'X'	"01" - "31"
RC Room Size	'X'	'X'	"01" - "14"
RC Liveness	'X'	'X'	"00" - "0A"
Rev. Time	'X'	'X'	"0A" - "32"
Rev. Delay	'X'	'X'	"00" - "FA"
Rev. Level	'X'	'X'	"00" - "64"
DSP Level	'X'	'X'	"00" - "09"
Panorama	'X'	'X'	"00" - "01"
Dimension	'X'	'X'	"00" - "06"
CT Width	'X'	'X'	"00" - "07"
C. Image	'X'	'X'	"00" - "05"
CT Level	'X'	'X'	"00" - "64"
RL Level	'X'	'X'	"00" - "64"
RC Level	'X'	'X'	"00" - "64"
RR Level	'X'	'X'	"00" - "64"
FL Level	'X'	'X'	"00" - "64"
FR Level	'X'	'X'	"00" - "64"
SBL LEVEL	'X'	'X'	"00" - "64"
SBR LEVEL	'X'	'X'	"00" - "64"
MATRIX	'X'	'X'	"00" - "08"

00: Prologic
 01: PL2 Movie
 02: PL2 Music
 03: PL2 Game
 04: Neo6 Cinema
 05: Neo6 Music
 06: PL2 Movie
 07: PL2 Music
 08: PL2 Game
 09: Circle Surround II Cinema
 0A: Circle Surround II Music
 0B: Circle Surround II Mono

DIAL LIFT	'X'	'X'	"00" - "05"
2CH DECODE	'X'	'X'	
Pro Logic / PLIIx	'X'	'X'	"00" - "01"
FOCUS ON/OFF	'X'	'X'	"00" - "01"
FOCUS LEVEL	'X'	'X'	"00" - "0A"
TruBass MODE	'X'	'X'	"00" - "03"
TruBass LEVEL	'X'	'X'	"00" - "0A"
TruBass SP SIZE	'X'	'X'	"00" - "02"

00: OFF
 01: ON
 00: OFF
 01: SW
 02: FRONT
 03: SW + FRONT
 00: SMALL
 01: MID
 02: LARGE

Parameter Initialize

'0'	'2'	'2'	'0' / '1'	DSP ID	
				'0'	'0'
				'0'	'1'
				'0'	'2'
				'0'	'3'
				'0'	'4'
				'0'	'5'
				'0'	'6'
				'0'	'7'
				'0'	'8'
				'0'	'9'
				'0'	'A'
				'0'	'B'
				'0'	'C'
				'0'	'D'
				'0'	'E'
				'0'	'F'
				'1'	'0'
				'1'	'1'
				'1'	'2'
				'1'	'3'
				'1'	'4'
				'1'	'5'
				'1'	'6'
				'1'	'7'
				'1'	'8'
				'1'	'9'
				'1'	'A'
				'1'	'B'
				'1'	'C'
				'1'	'D'
				'1'	'E'
				'1'	'F'
				'2'	'0'
				'2'	'1'
				'2'	'2'
				'2'	'3'
				'2'	'4'
				'2'	'5'
				'2'	'6'
				'2'	'7'
				'2'	'8'
				'2'	'9'
				'2'	'A'
				'2'	'B'
				'2'	'C'
				'2'	'D'
				'2'	'E'
				'2'	'F'
				'3'	'0'
				'3'	'1'
				'3'	'2'
				'3'	'3'
				'3'	'4'
				'3'	'5'
				'3'	'6'
				'3'	'7'
				'3'	'8'
				'3'	'9'
				'3'	'A'
				'3'	'B'
				'3'	'C'
				'3'	'D'
				'8'	'0'

* See Appendix 1 for the DSP Program ID for each Model.

Hall A
Hall B
Hall C

Hall D
Hall E
Live Concert

Tokyo
Freiburg
Royaumont

Village Gate
Village Vanguard
The Bottom Line

Roxy Theatre
Warehouse Loft
Arena

Disco
Party
Game
5/6/8 ch Stereo
Pop/Rock
DJ

Classical / Opera
Pavilion

Mono Movie
Variety / Sports

Spectacle
Sci-Fi

Adventure
General

Normal
Enhanced

Pro Logic II Movie
Pro Logic II Music
NEO:6 Cinema
NEO:6 Music
2CH STEREO
DIRECT STEREO
THX CINEMA (ULTRA2)

HALL F
HALL G
HALL H
THX GAME
STRAIGHT

Tone Control

'0'	'3'	'3'	'0' / '1'	SP/HP	Bass / Trb	Turn Over	Gain
Read '0' Write '1'				'0'	SP		
				'1'	HP		
					Bass / Trb		
				'0'	Bass		
				'1'	Treble		
					Turn Over		
				'0'	Low		
				'1'	Mid		
				'2'	High		
					Gain		
					'00'	-6.0dB	
					'01'	-5.5dB	
					'02'	-5.0dB	
					'03'	-4.5dB	
					'04'	-4.0dB	
					'05'	-3.5dB	
					'06'	-3.0dB	
					'07'	-2.5dB	
					'08'	-2.0dB	
					'09'	-1.5dB	
					'0A'	-1.0dB	
					'0B'	-0.5dB	
					'0C'	0.0dB	
					'0D'	0.5dB	
					'0E'	1.0dB	
					'0F'	1.5dB	
					'10'	2.0dB	
					'11'	2.5dB	
					'12'	3.0dB	
					'13'	3.5dB	
					'14'	4.0dB	
					'15'	4.5dB	
					'16'	5.0dB	
					'17'	5.5dB	
					'18'	6.0dB	

Parametric EQ

'0'	3'	'4'	'0' / '1'	CH ID	Band ID	Freq	Gain	Q
				'00'	CENTER			
				'01'	SUR BACK			
				'02'	FRONT L			
				'03'	FRONT R			
				'04'	SURROUND L			
				'05'	SURROUND R			
				'06'	SUR BACK L			
				'07'	SUR BACK R			
				'08'	PRESENCE L			
				'09'	PRESENCE R			
				0A'	SWFR (1)			
				0B'	SWFR 2			
				Band ID				
				'00'	BAND 1			
				'01'	BAND 2			
				'02'	BAND 3			
				'03'	BAND 4			
				'04'	BAND 5			
				'05'	BAND 6			
				'06'	BAND 7			
				'07'	BAND 8			
				'08'	BAND 9			
				'09'	BAND 10			
				0A'	BAND 11			
				0B'	BAND 12			
				Freq				
				'0'	'C'	62.5		
				'0'	'D'	70.2		
				'0'	'E'	78.7		
				'0'	'F'	88.4		
				'1'	'0'	99.2		
				'1'	'1'	111.4		
				'1'	'2'	125.0		
				'1'	'3'	140.3		
				'1'	'4'	157.5		
				'1'	'5'	176.8		
				'1'	'6'	198.4		
				'1'	'7'	222.7		
				'1'	'8'	250.0		
				'1'	'9'	280.6		
				'1'	'A'	315.0		
				'1'	'B'	353.6		
				'1'	'C'	396.9		
				'1'	'D'	445.4		
				'1'	'E'	500.00		
				'1'	'F'	561.2		
				'2'	'0'	630.0		
				'2'	'1'	707.1		
				'2'	'2'	793.7		
				'2'	'3'	880.9		
				'2'	'4'	1000.0		
				'2'	'5'	1122.5		
				'2'	'6'	1259.9		
				'2'	'7'	1414.2		
				'2'	'8'	1587.4		
				'2'	'9'	1781.8		
				'2'	'A'	2000.0		
				'2'	'B'	2244.9		
				'2'	'C'	2519.8		
				'2'	'D'	2828.4		
				'2'	'E'	3174.8		
				'2'	'F'	3563.6		
				'3'	'0'	4000.0		
				'3'	'1'	4489.8		
				'3'	'2'	5039.7		
				'3'	'3'	5656.9		
				'3'	'4'	6349.6		
				'3'	'5'	7127.2		
				'3'	'6'	8000.0		
				'3'	'7'	8979.7		
				'3'	'8'	10079.4		
				'3'	'9'	11313.7		
				'3'	'A'	12699.2		
				'3'	'B'	14254.4		
				'3'	'C'	16000.0		
				Gain				
				'0'	'0'	-20.0db		
				'0'	'1'	-19.5db		
				'0'	'2'	-19.0db		
					
					
				'3'	'2'	+5.0db		
				'3'	'3'	+5.5db		
				'3'	'4'	+6.0db		
				Q				
				'0'		0.500		
				'1'		0.630		
				'2'		0.794		
				'3'		1.000		
				'4'		1.260		
				'5'		1.587		
				'6'		2.000		
				'7'		2.572		
				'8'		3.174		
				'9'		4.000		
				'A'		5.040		
				'B'		6.300		
				'C'		8.000		
				'D'		10.080		

DC Trigger

'0'	'4'	'0'	'0'/'1'	Terminal ID	Zone ID	Input ID	Data
				'0'	Terminal 1		
				'1'	Terminal 2		
					'0'	Zone 1	
					'1'	Zone 2	
					'2'	Zone 3	
							Phono
							CD
							Tuner
							CD-R
							MD/Tape
							DVD
							D-TV/LD
							CBL/SAT
							SAT
							VCR1
							VCR2/DVR
							VCR3/DVR
							V-AUX
							Multi Input
							'0'
							'1'

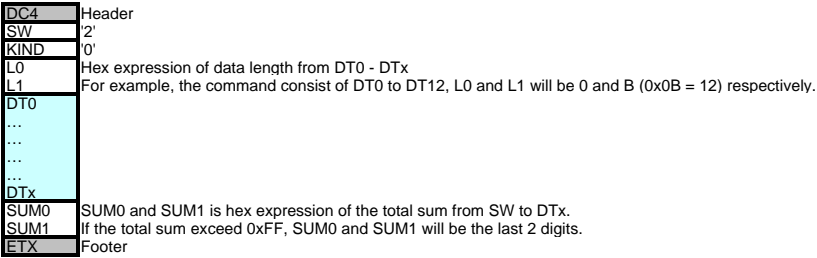
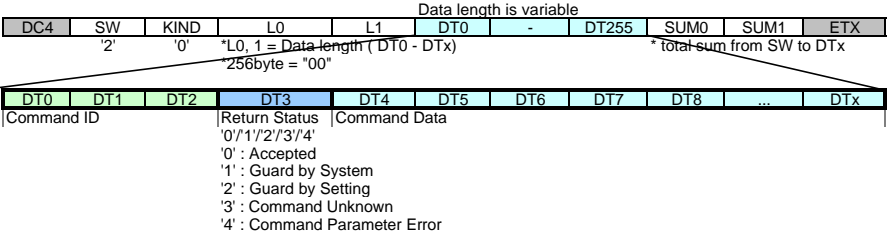
Speaker Distance

'0'	'4'	'1'	'0' / '1'	CH ID	Unit ID	Distance	
			Read '0'	'0'	CENTER		
			Write '1'	'1'	SUR BACK		
				'2'	FRONT L		
				'3'	FRONT R		
				'4'	SUR L		
				'5'	SUR R		
				'6'	SUR BACK L		
				'7'	SUR BACK R		
				'8'	PRESENCE L		
				'9'	PRESENCE R		
				'A'	SWFR (1)		
				'B'	SWFR 2		
				Unit ID			
				'0'	Meter		
				'1'	Feet		
				Unit ID			
				'0'	Meter		
				Distance			Distance = DATA x 0.01 m
				'0'	'1'	'E'	0.3m
			
			
				'9'	'6'	'0'	24.0m
				Unit ID			
				'1'	Feet		
				Distance			Distance = DATA x 0.1 feet
				'0'	'0'	'A'	1 ft
			
			
				'3'	'2'	'0'	80 ft

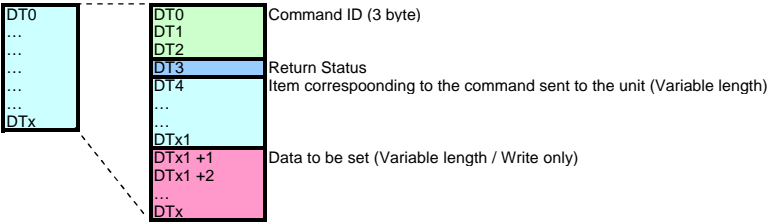
Tuner

[illegible]

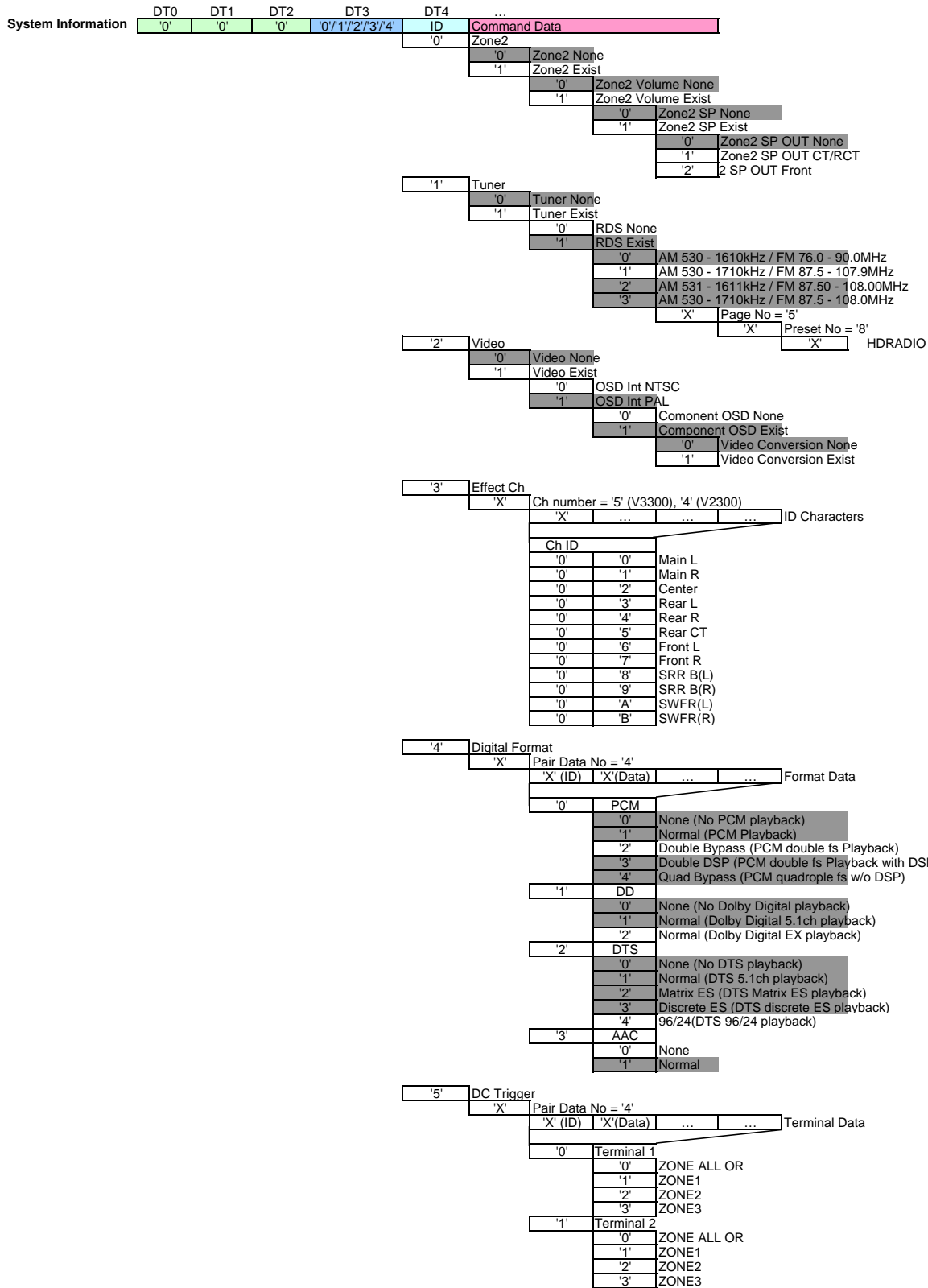
Return Commands from Slave to Host



Following is the data structure from DT0 to DTx.



From the next page, Only from the DT0 to DTx byte will be illustrated.



Input Information

'0'	'0'	'1'	'0'/'1'/'2'/'3'/'4'	ID	Data Number	Command Data
				'0'	SP OUT	
				'X'	'X'	Data No
						Ch ID
				'0'	'0'	CENTER
				'0'	'1'	SUR BACK
				'0'	'2'	FRONT L
				'0'	'3'	FRONT R
				'0'	'4'	SURROUND L
				'0'	'5'	SURROUND R
				'0'	'6'	SUR BACK L
				'0'	'7'	SUR BACK R
				'0'	'8'	PRESENCE L
				'0'	'9'	PRESENCE R
				'0'	'A'	SWFR (1)
				'0'	'B'	SWFR 2
'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
				'X'	'X'	Data No
						Ch ID
				'0'	'0'	Phono
				'0'	'1'	CD
				'0'	'2'	Tuner
				'0'	'3'	CD-R
				'0'	'4'	MD/Tape
				'0'	'5'	DVD
				'0'	'6'	D-TV/LD
				'0'	'7'	CBL/SAT
				'0'	'8'	SAT
				'0'	'9'	VCR1
				'0'	'A'	VCR2/DVR
				'0'	'B'	VCR3
				'0'	'C'	V-AUX

DSP Information

'0'	'0'	'2'	'0'/'1'/'2'/'3'/'4'	ID	Data Number	Command Data
				'0'	Program	
				'X'	'X'	Data No
						Program ID
				'0'	'0'	Hall A
				'0'	'1'	Hall B
				'0'	'2'	Hall C
				'0'	'3'	
				'0'	'4'	Hall D
				'0'	'5'	Hall E
				'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'	Roxy Theatre
				'1'	'1'	Warehouse Loft
				'1'	'2'	Arena
				'1'	'3'	
				'1'	'4'	Disco
				'1'	'5'	Party
				'1'	'6'	Game
				'1'	'7'	6/8 ch 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'	Variety / 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'	Normal
				'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 (ULTRA2)
				'3'	'7'	
				'3'	'8'	PRO LOGIC Game
				'8'	'0'	STRAIGHT

* See Appendix 1 for the DSP Program ID for each Model.

DSP Information

'0'	'0'	'2'	'0'/'1'/'2'	ID	Data Number	Command Data	
				'1'	User 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'	RC. Init. Delay
					'0'	'9'	RC Room Size
					'0'	'A'	RC Liveness
					'0'	'B'	Rev. Time
					'0'	'C'	Rev. Delay
					'0'	'D'	Rev. Level
					'0'	'E'	DSP Level
					'0'	'F'	Panorama
					'1'	'0'	Dimention
					'1'	'1'	CT Width
					'1'	'2'	C. Image
					'1'	'3'	CT Level
					'1'	'4'	RL Level
					'1'	'5'	RC Level
					'1'	'6'	RR Level
					'1'	'7'	FL Level
					'1'	'8'	FR Level
					'1'	'9'	SBL LEVEL
					'1'	'A'	SBR LEVEL
					'1'	'B'	MATRIX
					'1'	'C'	DIAL LIFT
					'1'	'D'	2CH DECODE
					'1'	'E'	Pro Logic / PLIIx
					'2'	'F'	FOCUS ON/OFF
					'2'	'0'	FOCUS LEVEL
					'2'	'1'	TruBass MODE
					'2'	'2'	TruBass LEVEL
					'2'	'3'	TruBass SP SIZE

Appendix

1. DSP Program ID Table

Program ID		
'0'	'0'	Hall A
'0'	'1'	Hall B
'0'	'2'	Hall C
'0'	'3'	
'0'	'4'	Hall D
'0'	'5'	Hall E
'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'	Roxy Theatre
'1'	'1'	Warehouse Loft
'1'	'2'	Arena
'1'	'3'	
'1'	'4'	Disco
'1'	'5'	Party
'1'	'6'	Game
'1'	'7'	5/6/8 ch 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'	Variety / 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'	Normal
'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 (ULTRA2)
'3'	'7'	
'3'	'8'	
'3'	'9'	HALL F
'3'	'A'	HALL G
'3'	'B'	HALL H
'3'	'C'	THX GAME
'8'	'0'	STRAIGHT