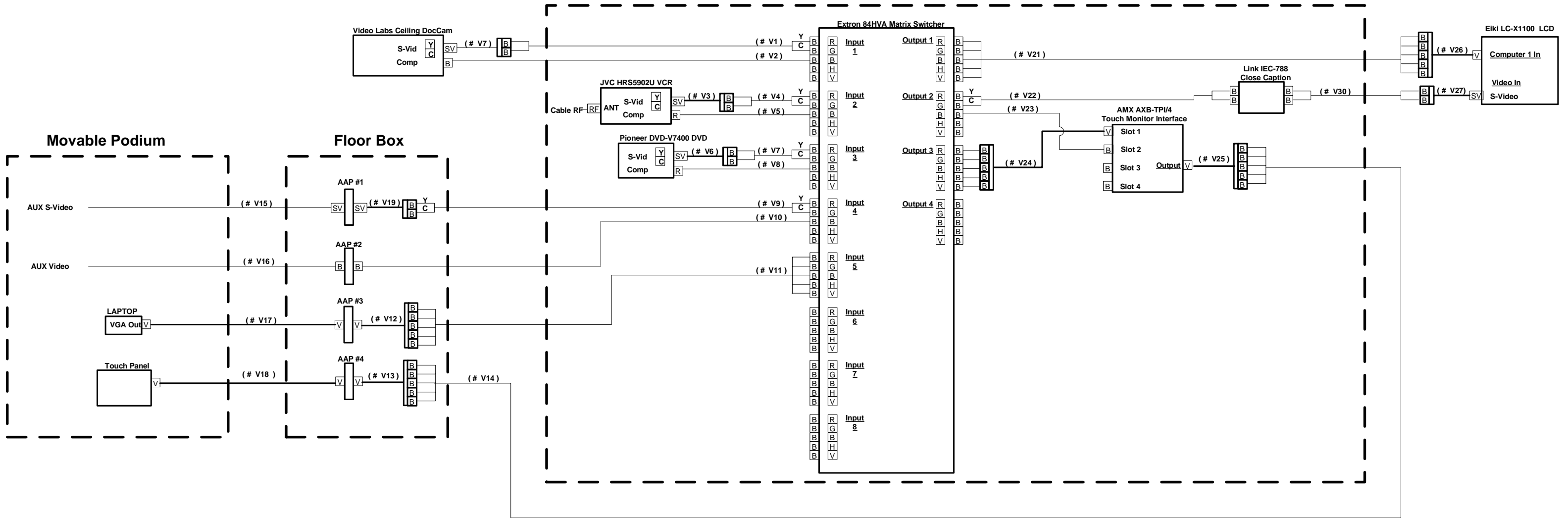
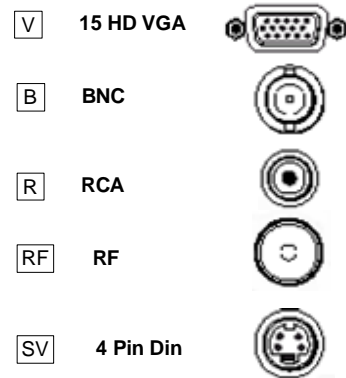


Multimedia Classrooms		Audio Block Diagram			
		Alumni 203, 205			
Mark Hurt	CTS-I	SIZE	FSCM NO	DWG NO	REV
2/10/04		SCALE	1 : 1	AV 1	1
			SHEET	1 OF 17	

### Equipment Rack



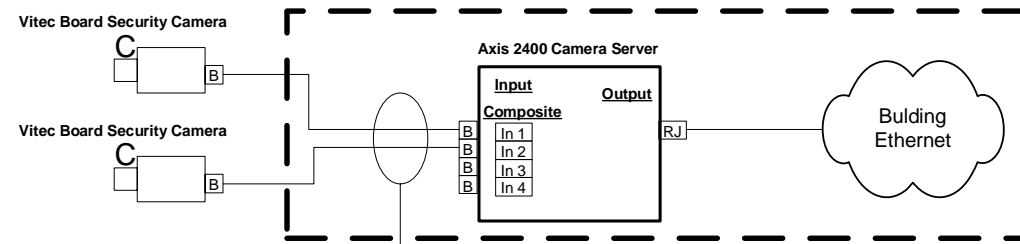
#### Connector Legend



#### Premade Cable Legend

(# V15)	12' SVHS
(# V12), (# V13), (# V25)	5" 15 HD Male to 5F BNC
(# V3), (# V6), (# V7), (# V19), (# V27)	8" S-VideoM to 2F BNC
(# V24)	6' 15 HD Female to 5M BNC
(# V26)	6' 15 HD Male to 5F BNC
(# V18), (# V20)	6' VGAM to VGAM
(# V17)	6' 15 HD Male to 5M BNC

#### Telcom Closet

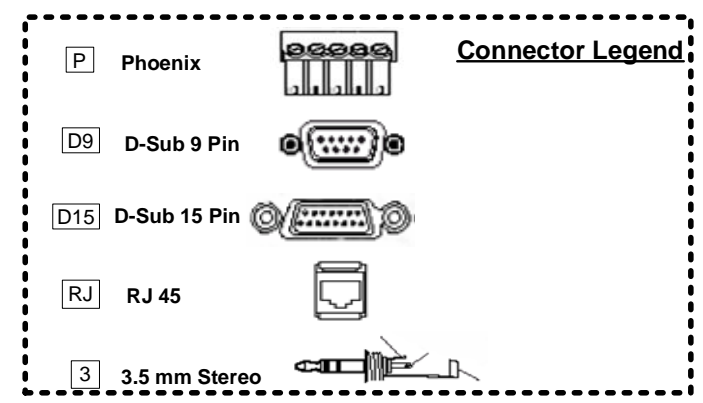
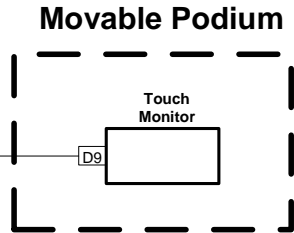
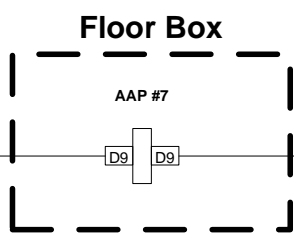
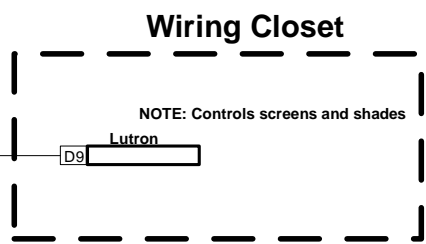
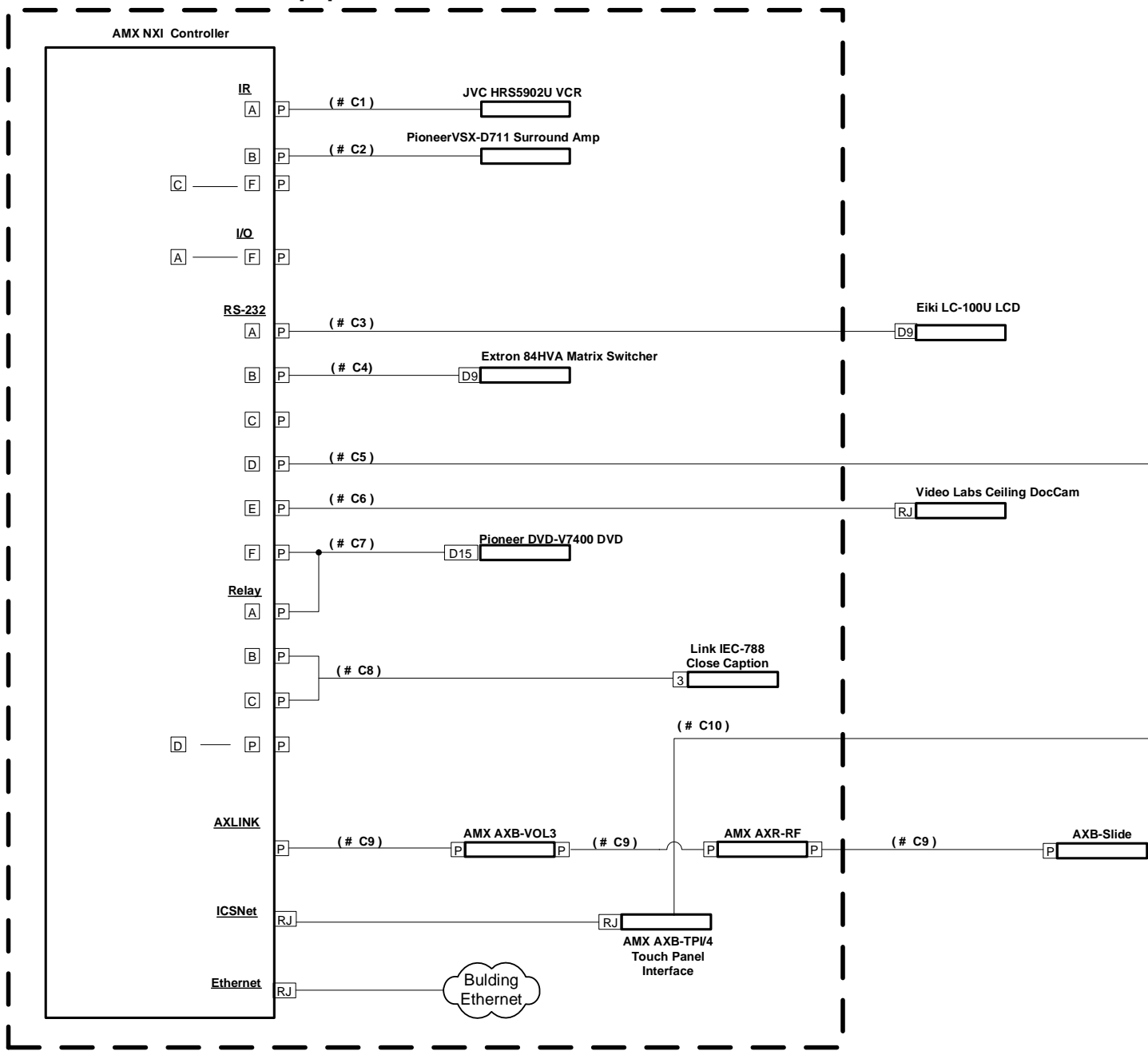


NOTE : Label each cable with the room number.

EXAMPLE : (# Phillips 381)

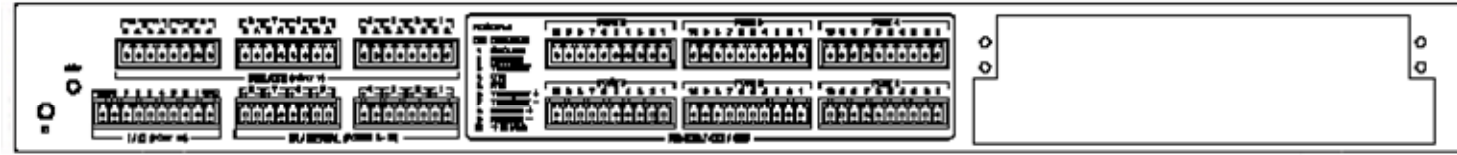
<b>Multimedia Classrooms</b>	<b>Video Block Diagram</b>			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO	REV
2/10/04	SCALE	1 : 1	AV 2	1
			SHEET	2 OF 17

### Equipment Rack



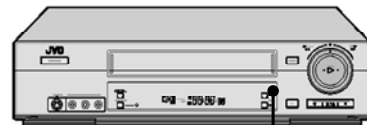
<b>Multimedia Classrooms</b>	<b>Control Block Diagram</b>			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO AV 3	REV
2/10/04	SCALE	1 : 1	SHEET	3 OF 17

# NXI IR/Serial

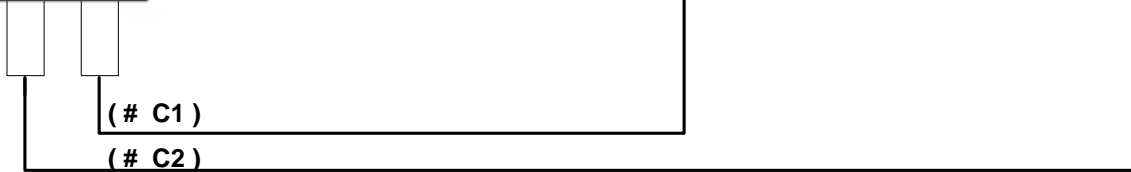
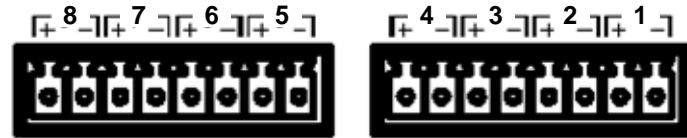


AMX NXI Central Controller

JVC HRS-5902U VCR



Pioneer VSX-D712 Surround Amp

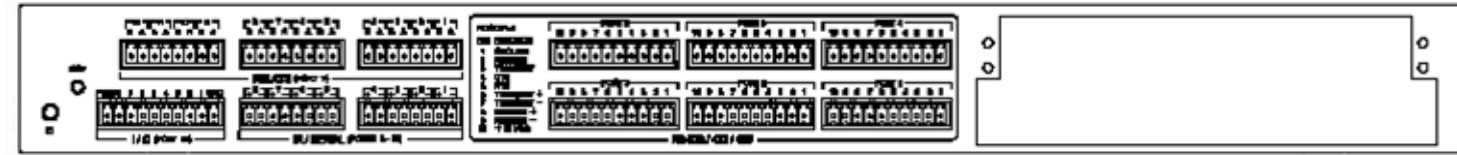


**Function**

- 1 GND (-)
- 2 Signal 1 (+)
- 3 GND (-)
- 4 Signal 2 (+)
- 5 GND (-)
- 6 Signal 3 (+)
- 7 GND
- 8 Signal 4 (+)
- 9 GND
- 10 Signal 5 (+)
- 11 GND (-)
- 12 Signal 6 (+)
- 13 GND
- 14 Signal 7 (+)
- 15 GND
- 16 Signal 8 (+)

<b>Multimedia Classrooms</b>	Control IR Wiring			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO AV 3.1	REV
2/10/04	SCALE	1 : 1	SHEET	4 OF 17

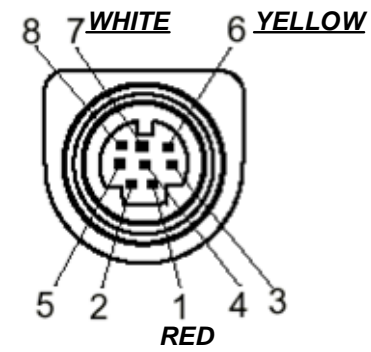
# NXI RS-232 Port 1



AMX NXI Central Controller

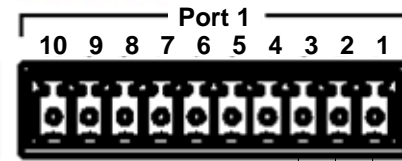
Eiki  
LC-X100  
LCD

Stop bit :1  
Data bit : 8  
Parity : none  
Baud : 19.2



**PIN    Function**

- 1    GND
- 2    RXD
- 3    TXD
- 4    CTS
- 5    RTS
- 6    TX+
- 7    TX-
- 8    RX+
- 9    RX-
- 10   +12VDC



(# C3)

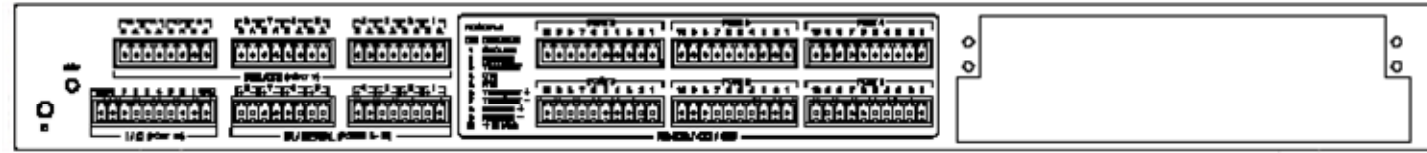
- White
- Green
- Black

**PIN    Function**

- 1    RX
- 4    GND
- 6    TX

<b>Multimedia Classrooms</b>	Control Eiki LC-X1100 LCD Projector Wiring			
	Alumni 203, 205			
Mark Hurt    CTS-I	SIZE	FSCM NO	DWG NO AV 3.2	REV
2/10/04	SCALE	1 : 1	SHEET	5 OF 17

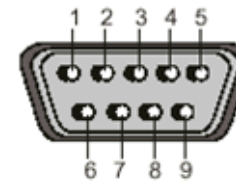
# NXI RS-232 Port 2



AMX NXI Central Controller

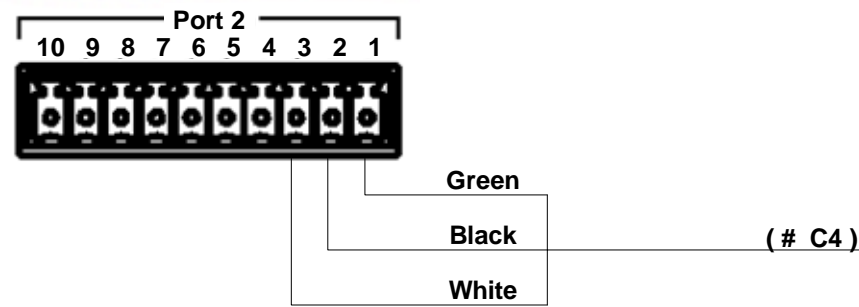
Extron  
84HVA  
Matrix  
Switcher

Stop bit :1  
Data bit : 8  
Parity : none  
Baud : 9600



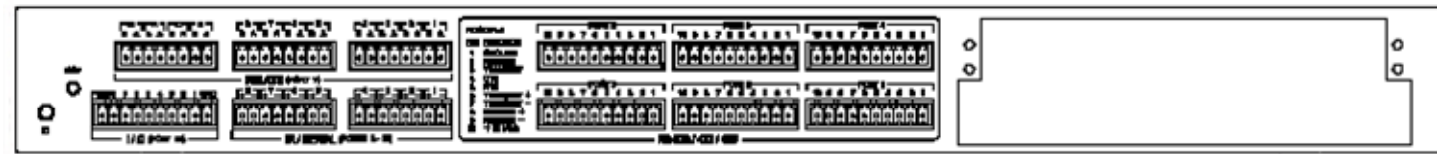
PIN	Function
Black	2 TX
White	3 RX
Green	5 GND

PIN	Function
1	GND
2	RXD
3	TXD
4	CTS
5	RTS
6	TX+
7	TX-
8	RX+
9	RX-
10	+12VDC



<b>Multimedia Classrooms</b>	<b>Control Extron 84HVA Matrix Switcher Wiring</b>			
	Phillips 381,383,385,367			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO	REV
2/10/04	SCALE	1 : 1	AV 3.3	
			SHEET	6 OF 17

## NXI RS-232 Port 4

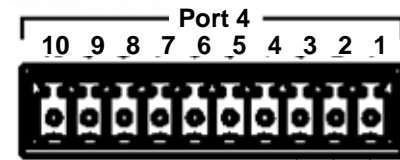


**AMX NXI Central Controller**

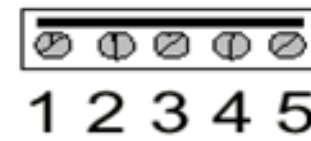
**Lutron  
RTA-RS232**

Stop bit :1  
Data bit : 8  
Parity : none  
Baud : 9600

<u>PIN</u>	<u>Function</u>
1	GND
2	RXD
3	TXD
4	CTS
5	RTS
6	TX+
7	TX-
8	RX+
9	RX-
10	+12VDC



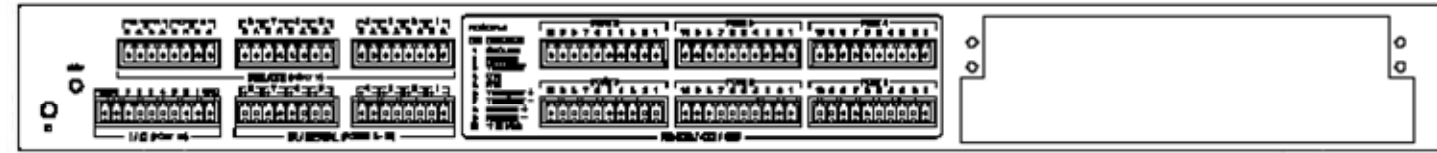
(# C5)



<u>PIN</u>	<u>Function</u>
Green 1	Common
White 2	Data In
Black 3	Data Out

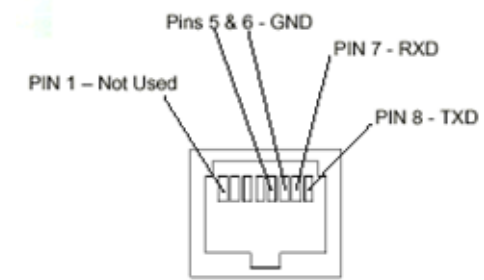
<b>Multimedia Classrooms</b>	Control Lutron Lighting Wiring			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO AV 3.4	REV
2/10/04	SCALE 1 : 1		SHEET	7 OF 17

# NXI RS-232 Port 5

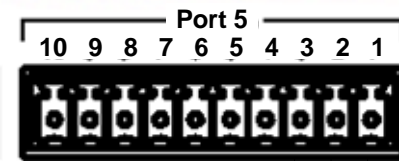


AMX NXI Central Controller

**VideoLabs  
Ceiling DocCam**  
 Stop bit :1  
 Data bit : 8  
 Parity : none  
 Baud : 4800



<u>PIN</u>	<u>Function</u>
1	GND
2	RXD
3	TXD
4	CTS
5	RTS
6	TX+
7	TX-
8	RX+
9	RX-
10	+12VDC



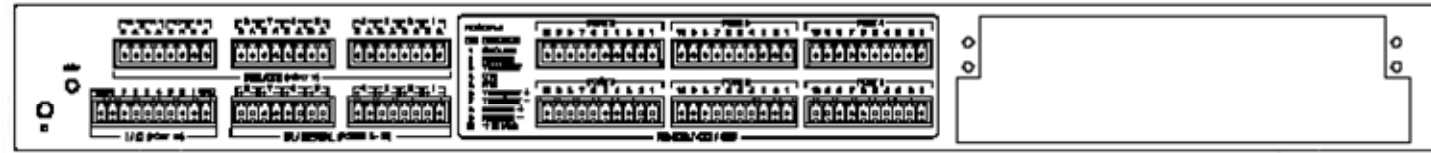
(# C6)

<u>PIN</u>	<u>Function</u>
Green 5,6	Gnd
White 7	RXD
Black 3	TXD

<b>Multimedia Classrooms</b>	<b>Control Video Labs Ceiling DocCam Wiring</b>			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO AV 3.5	REV
2/10/04	SCALE	1 : 1	SHEET	8 OF 17



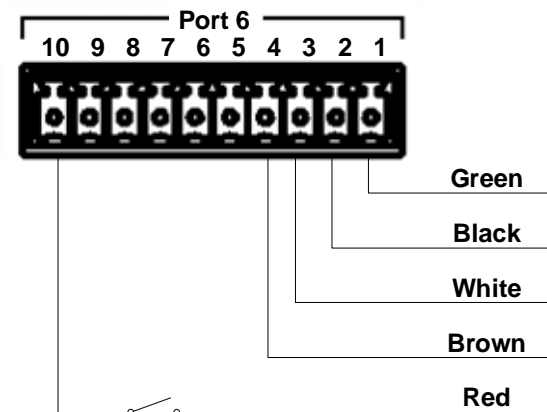
# NXI RS-232 Port 6



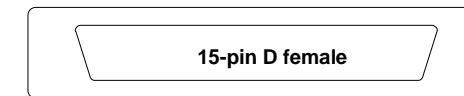
AMX NXI Central Controller

**Pioneer  
DVD-V7400  
DVD**  
 Stop bit :1  
 Data bit : 8  
 Parity : none  
 Baud : 4800

<u>PIN</u>	<u>Function</u>
1	GND
2	RXD
3	TXD
4	CTS
5	RTS
6	TX+
7	TX-
8	RX+
9	RX-
10	+12VDC



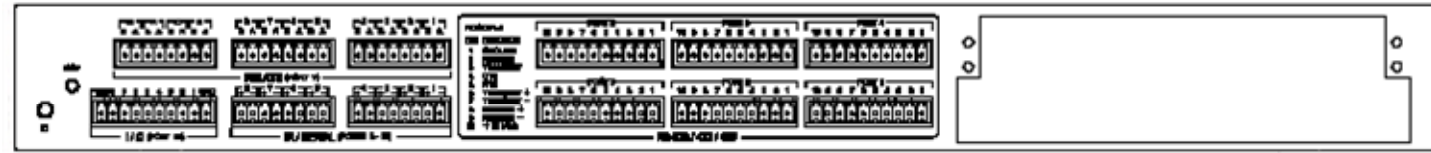
NOTE: Refer to drawing 3.7 for relay wiring.



<u>PIN</u>	<u>Function</u>
Green	1 GND
Black	2 TX
White	3 RX
Brown	4 DTS
Red	5 +5V

<b>Multimedia Classrooms</b>	Control Pioneer DVD-V7400 DVD Wiring			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO AV 3.6	REV
2/10/04	SCALE	1 : 1	SHEET	9 OF 17

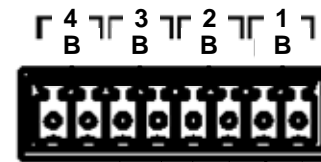
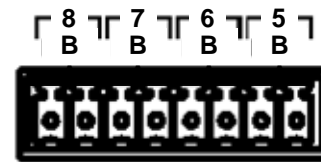
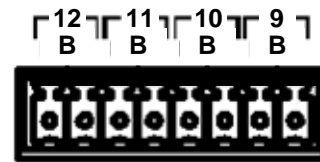
# NXI Relay 12



AMX NXI Central Controller

## Function

- 1 Relay 1A
- 2 Relay 1B
- 3 Relay 2A
- 4 Relay 2B
- 5 Relay 3A
- 6 Relay 3B
- 7 Relay 4A
- 8 Relay 4B
- 9 Relay 5A
- 10 Relay 5B
- 11 Relay 6A
- 12 Relay 6B
- 13 Relay 7A
- 14 Relay 7B
- 15 Relay 8A
- 16 Relay 8B
- 17 Relay 9A
- 18 Relay 9B
- 19 Relay 10A
- 20 Relay 10B
- 21 Relay 11A
- 22 Relay 11B
- 23 Relay 12A
- 24 Relay 12B



From Rs-232 Port 6 Pin 10 (+12 VDC)

To Pioneer DVD 15pin d-connector Pin #5

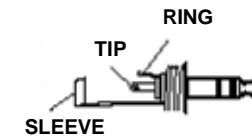
Green  
Black  
White

(# C8)

Black  
White  
Green

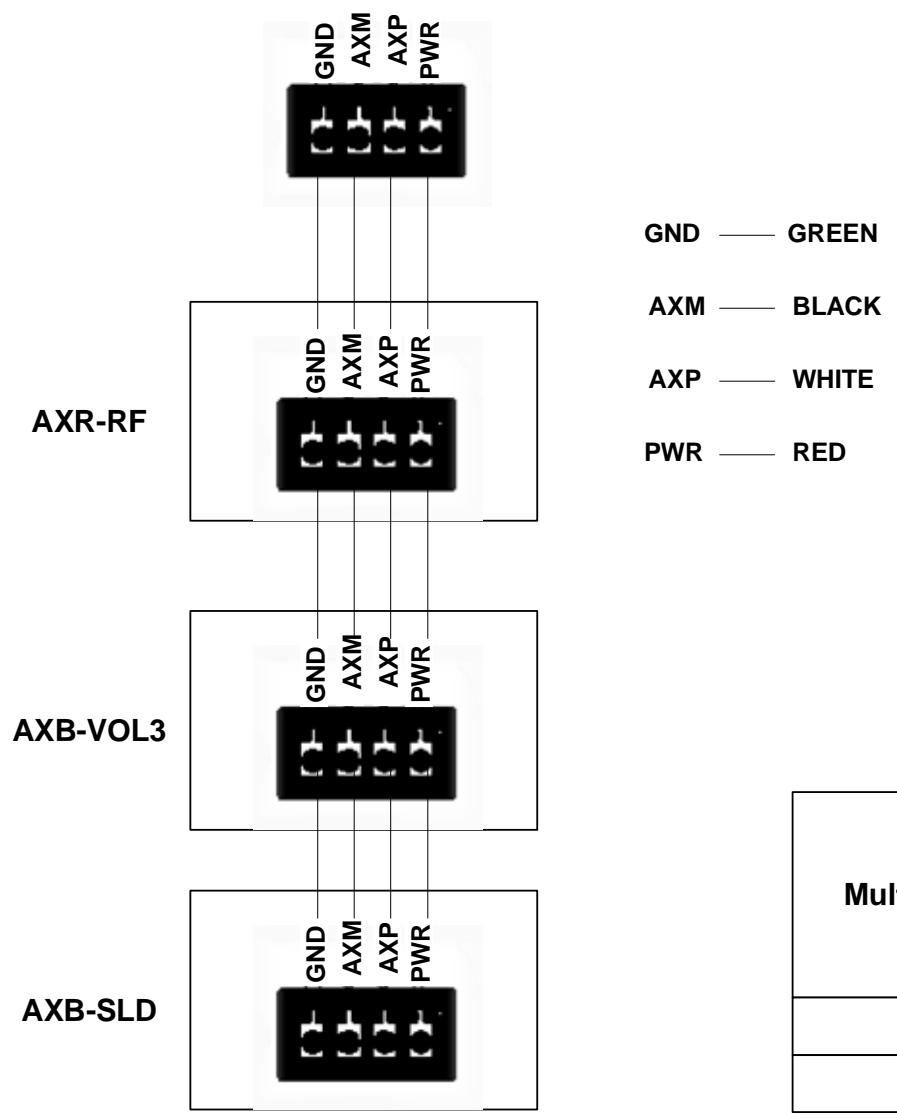
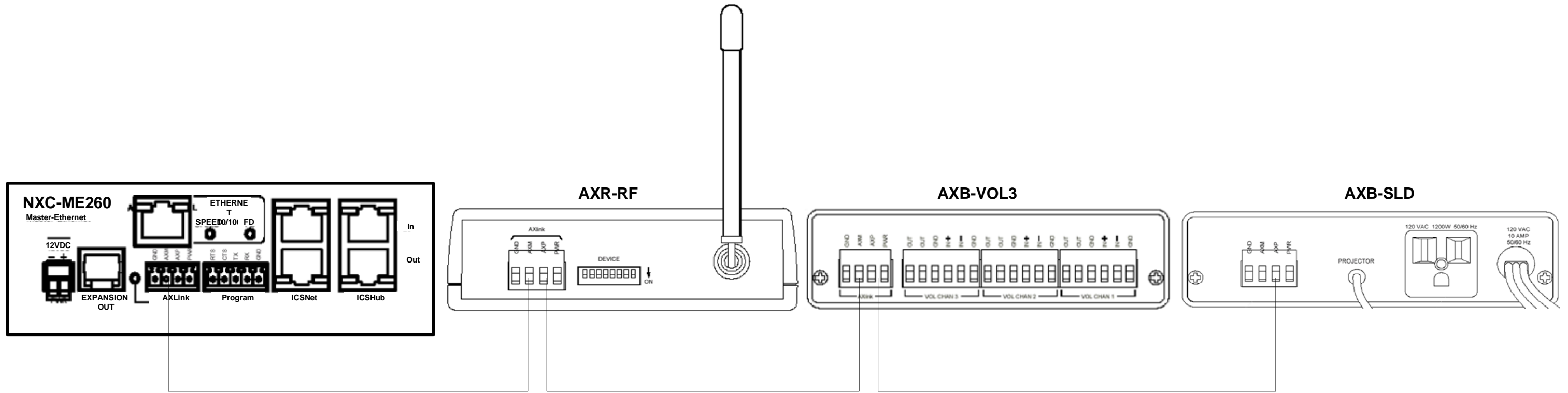
PIN	Function
TIP	ON
RING	OFF
SLEEVE	GND

Link  
IEC-788  
Close Caption



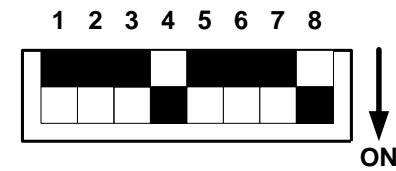
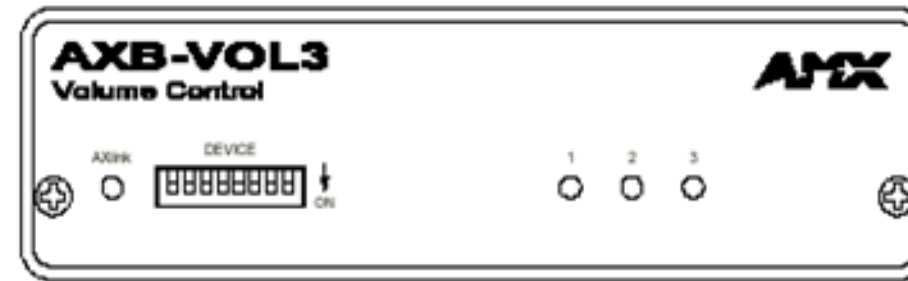
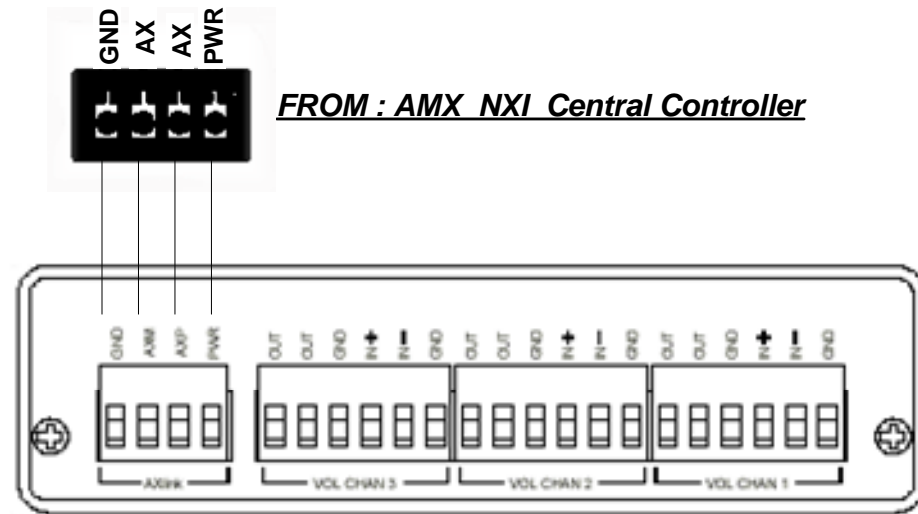
**NOTE:**  
Front panel switch (XDS) should be in center position

<b>Multimedia Classrooms</b>	<b>Control Relay Wiring</b>			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO AV 3.7	REV
2/10/04	SCALE	1 : 1	SHEET	10 OF 17



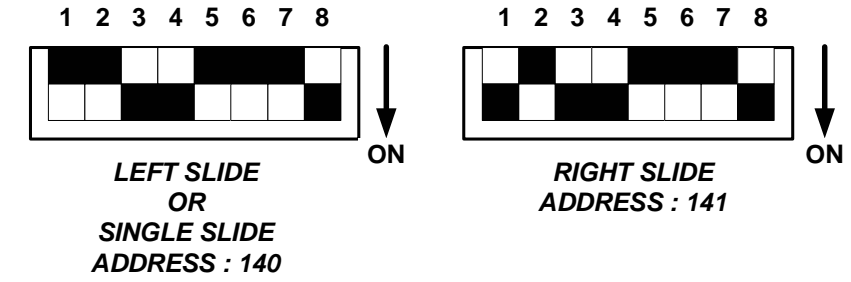
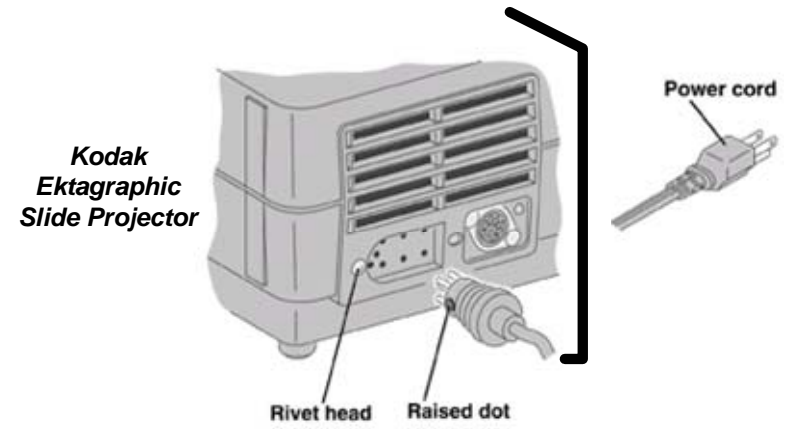
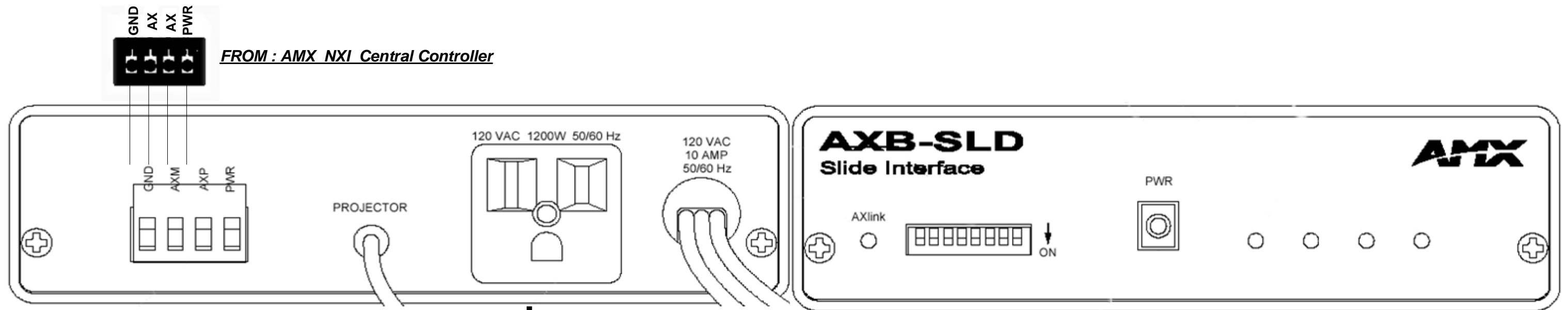
- GND — GREEN
- AXM — BLACK
- AXP — WHITE
- PWR — RED

<b>Multimedia Classrooms</b>	<b>Control AXLink Wiring</b>			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO AV 3.7	REV
2/10/04	SCALE	1 : 1	SHEET	11 OF 17



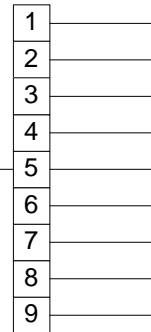
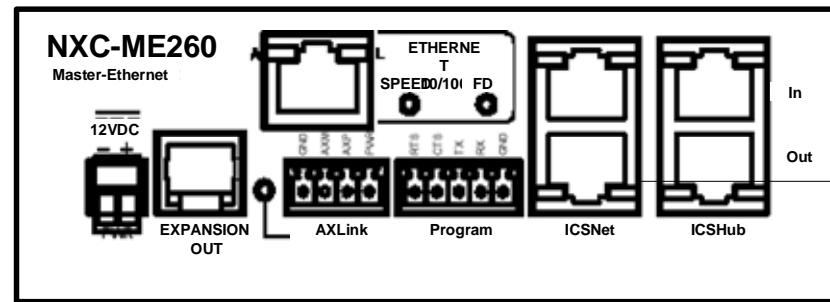
ADDRESS : 136

<b>Multimedia Classrooms</b>	<b>CONTROL AXB-VOL WIRING</b>			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO AV 3.9	REV
2/10/04	SCALE	1 : 1	SHEET	12 OF 17

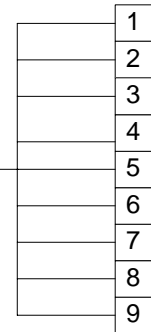


<b>Multimedia Classrooms</b>	<b>CONTROL AXB-SLD TO SLIDE PROJECTOR WIRING</b>			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO AV 3.10	REV
2/10/04	SCALE	1 : 1	SHEET	13 OF 17

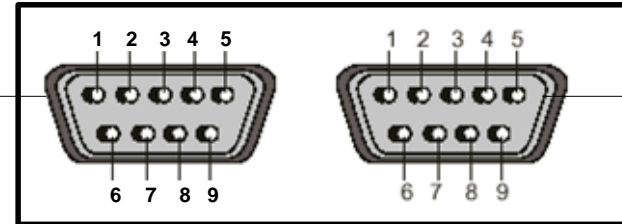
**AMX NXI Central Controller Master Card**



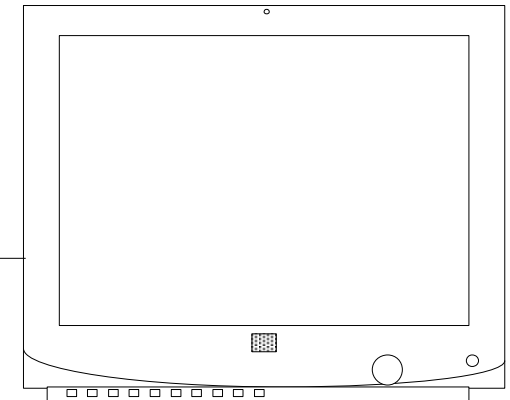
(# C10)



**AAP #1CA  
9-pin female**



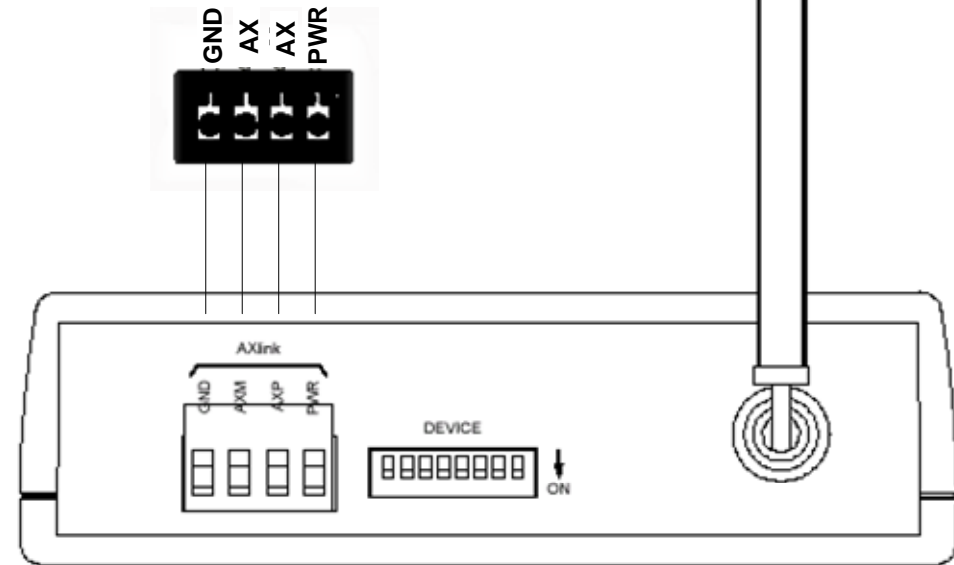
(# C12)



<b>Multimedia Classrooms</b>	<b>Control TPI4 Mouse Wiring</b>			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO AV 3.10	REV
2/10/04	SCALE	1 : 1	SHEET	14 OF 17

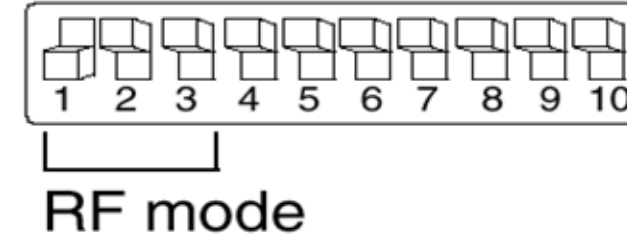
# AXR-RF

FROM : AMX NXI Central Controller



# TXC-16 REMOTE

ON

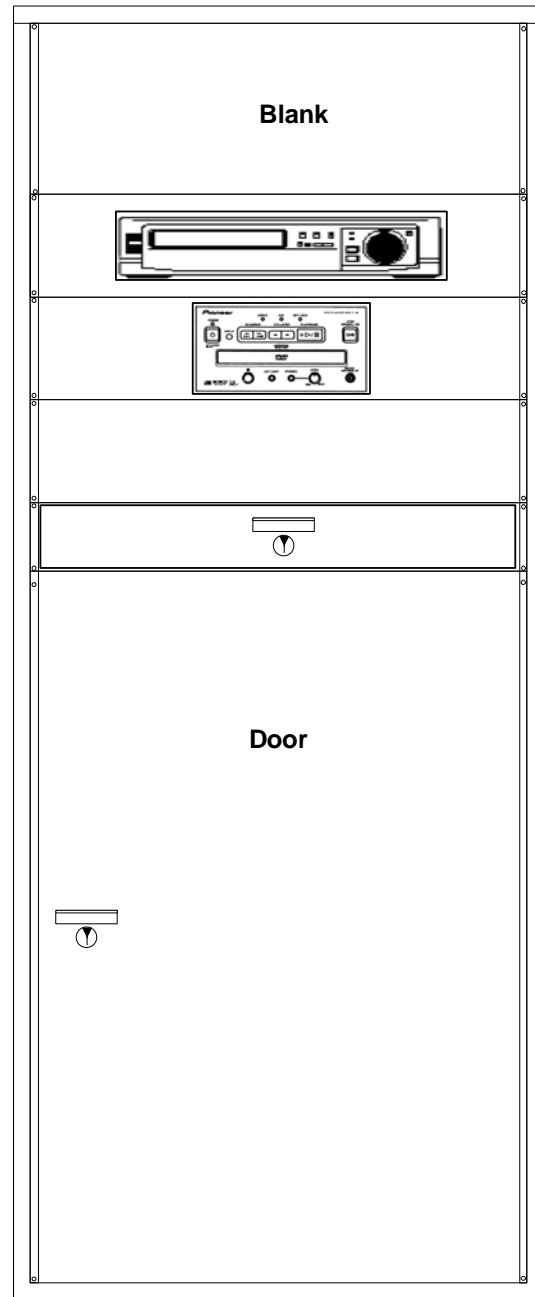


TXC16+ and TXC32+ Radio Codes, DIP Switch Settings, and Channel Code Ranges								
Radio code	DIP Switch Positions				Channel Code Ranges			
	7	8	9	10	TXC16+		TXC32+	
					From	To	From	To
1	ON	OFF	OFF	OFF	16	31	16	63
2	OFF	ON	OFF	OFF	32	47	32	79
3	ON	ON	OFF	OFF	48	63	48	95
4	OFF	OFF	ON	OFF	64	79	64	111
5	ON	OFF	ON	OFF	80	95	80	127
6	OFF	ON	ON	OFF	96	111	96	143
7	ON	ON	ON	OFF	112	127	112	159
8	OFF	OFF	OFF	ON	128	143	128	175
9	ON	OFF	OFF	ON	144	159	144	191
10	OFF	ON	OFF	ON	160	175	160	207
11	ON	ON	OFF	ON	176	191	176	223
12	OFF	OFF	ON	ON	192	207	192	239
13	ON	OFF	ON	ON	208	223	208	255
14	OFF	ON	ON	ON	224	239	N/A	N/A
15	ON	ON	ON	ON	240	255	N/A	N/A

Alumni 203  
Alumni 205

Multimedia Classrooms	CONTROL AXR-RF AND TXC-16 WIRING			
	Alumni 203, 205			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO	REV
2/10/04	SCALE	1 : 1	AV 3.12	15 OF 17

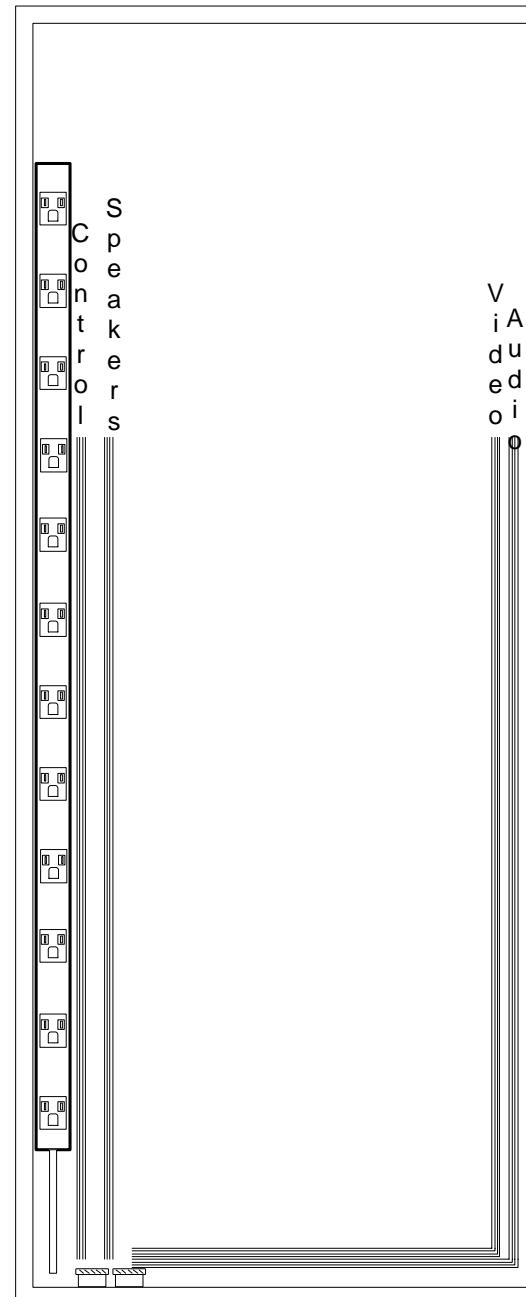
**Front View**



**Front View Rack Layout**

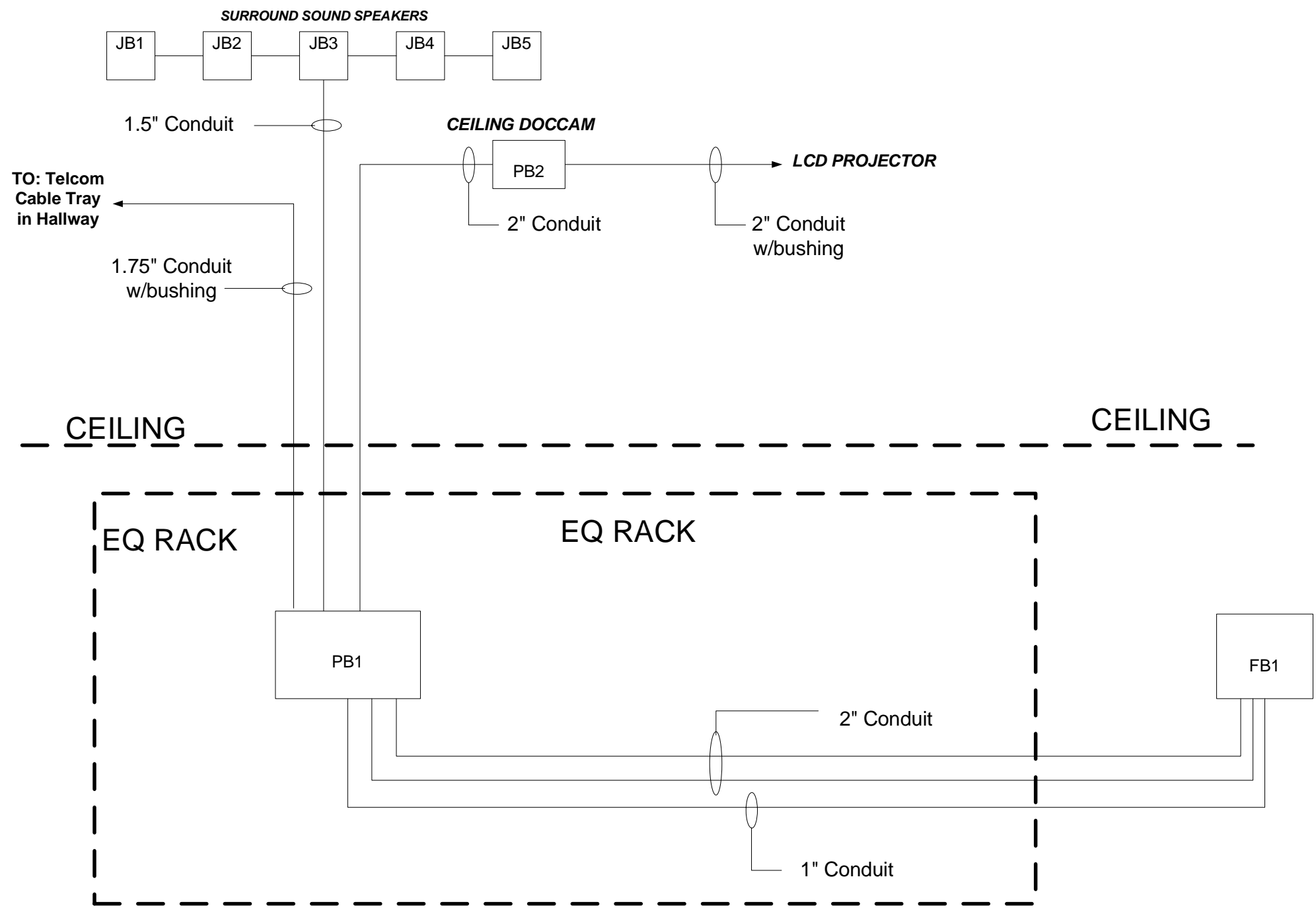
1	Blank	37
2		36
3		35
4		34
5		33
6	JVC HR-S5902U VCR	32
7		31
8		30
9	Pioneer DVD-V7400 DVD	29
10		28
11		27
12	Blank	26
13		25
14		24
15	Drawer	23
16		22
17		21
18		20
19		19
20		18
21		17
22		16
23	AMX AC-RAK	15
24		14
25	AMX NI-3000	13
26		12
27		11
28	AMX TPI/4	10
29		9
30		8
31	Extron 84HVA Matrix Switcher	7
32		6
33		5
34		4
35		3
36		2
37	Pioneer VSX-D712 Surround Amp	1

**Back View Wire Management**



<b>Multimedia Classrooms</b>	<b>Equipment Rack</b>			
	<b>Stone Center 206</b>			
Mark Hurt CTS-I	SIZE	FSCM NO	DWG NO	REV
2/10/04	SCALE	3/8" = 1'-0"	AV 4	SHEET 16 OF 17





- 1) JB1 - JB5      4"X4" Box w/cover
- 2) PB1            12"X12" Box w/cover
- 3) PB2            8"X8" Box w/cover
- 4) FB1            FSR Box

**MC1 POWER REQUIRMENTS:**

1 Quad outlet dedicated circuit for equipment rack and 1 duplex outlet for floorbox.

1 Duplex outlet dedicated circuit for each of the following : LCD projector (in ceiling tile) and ceiling doccam.

<b>Multimedia Classrooms</b>	Conduit Riser			
	MC1 MOVABLE PODIUM			
Mark Hurt    CTS-I	SIZE	FSCM NO	DWG NO AV	REV
2/10/04	SCALE	1 : 1	SHEET	17 OF 17