RTS™ Digital Matrix Intercom Systems

Breakout Panel Resource Guide

includes: XCP-32-DB9 XCP-16-DB9-T XCP-48-RJ45 XCP-48-TELCO XCP-40-DB9 XCP-40-RJ11 XCP-24 XCP-24-USCO XCP-24-USCO

January 2006 Rev C

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CHAPTER 1 Breakout Panel Introduction

Breakout Panels provide a convenient way of expanding the port capacity of an ADAM intercom system. Currently, there are seven breakout panels for use with the AIO cards: XCP-32-DB9, XCP-16-DB9-T, XCP-48-RJ45, XCP-48-Telco, XCP-40-DB9, XCP-40-RJ11, and the XCP-24.

Installation

Requirements

- Have the new ADAM power supply installed (p/n 9020-7515-001).
- In a single frame system, have the Master Controller firmware 9.22.0 or higher installed.
- In a multi-frame system have:

the Peripheral Controller firmware 10.13.x or higher installed

the DBX firmware 1.13.0 or higher installed.

IMPORTANT!!! Use the following instructions for you *initial* setup of an AIO-16 card. If you do not follow these directions, the AIO-16 card may not work properly.

Breakout Panel Introduction

To install the AIO-16 card for the first time, do the following:

- 1. Gently insert the AIO-16 card into the appropriate ADAM slot.
- **2.** Lightly tighten down the AIO-16 card.
- **3.** Carefully attach the backcard (MDR or SCSI,) to the AIO-16 card from the back of the ADAM. Verify it is properly seated against the AIO-16 card and is sitting firmly in the system.
- 4. Tight the backcard to the frame
- 5. Fully tighten down the AIO-16 from the front of the system.

NOTE: Once you have done this, you do not have to repeat this everytime.

6. Attach the desired breakout panel to the AIO-16's backcard connector.



 TABLE 1. MDR backcard and connector.

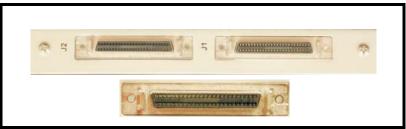
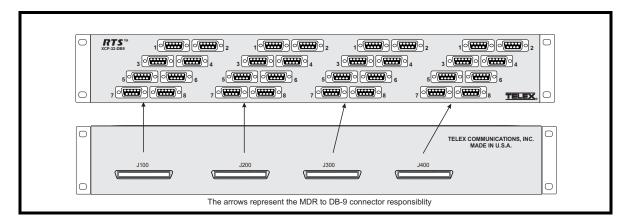


 TABLE 2. SCSI backcard and connector

chapter 2 *XCP-32-DB9* 9000-7810-000



The XCP-32-DB9 is the newly created 32-port DB9 breakout panel with MDR connector for the ADAM with an AIO-16 card and Cronus. It allows you to expand the number of DB-9 serial ports. The XCP-32-DB9 is backward compatible with the AIO-8 card.

NOTE: When using the 32-port DB-9 breakout panel, you MUST use the MDR backcard for both the AIO-16 and Cronus.

9-pin Male D-sub	
Pin 1	Keypanel Data +
Pin 2	Keypanel Data -
Pin 3	N/A
Pin 4	Audio Out +
Pin 5	Audio Out -
Pin 6	N/A
Pin 7	Audio In -

9-pin Male D-sub	
Pin 8	Audio In +
Pin 9	N/A

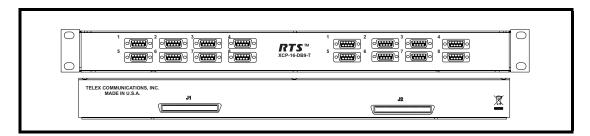
MDR Connector		
Pin Number	Port	Function
8	1	Data +
33	1	Data -
24	1	Audio To Matrix +
49	1	Audio To Matrix -
25	1	Audio From Matrix +
50	1	Audio From Matrix -
i		
7	2	Data +
32	2	Data -
22	2	Audio To Matrix +
47	2	Audio To Matrix -
	-	

MDR Connector			
Pin Number	Port	Function	
23	2	Audio From Matrix +	
48	2	Audio From Matrix -	
	•	·	
6	3	Data +	
31	3	Data -	
20	3	Au dio To Matrix +	
45	3	Audio To Matrix -	
21	3	Audio From Matrix +	
46	3	Audio From Matrix -	
5	4	Data +	
30	4	Data +	
18	4	Audio To Matrix +	
43	4	Audio To Matrix -	
19	4	Audio From Matrix +	
44	4	Audio From Matrix -	
4	5	Data +	
29	5	Data +	
16	5	Audio To Matrix +	
41	5	Audio To Matrix -	
17	5	Audio From Matrix +	
42	5	Audio From Matrix -	
		-	
3	6	Data +	
28	6	Data +	
14	6	Audio To Matrix +	
39	6	Audio To Matrix -	
15	6	Audio From Matrix +	
40	6	Audio From Matrix -	
	1		
2	7	Data +	
27	7	Data +	
12	7	Audio To Matrix +	
37	7	Audio To Matrix -	
13	7	Audio From Matrix +	
38	7	Audio From Matrix -	
1	8	Data +	
26	8	Data +	
10	8	Audio To Matrix +	
35	8	Audio To Matrix -	
11	8	Audio From Matrix +	
36	8	Audio From Matrix -	

NOTE: There are 4 MDR connectors on the XCP-32-DB9 Breakout panel.

MDR Connector	Port
J1	1-8
J2	9-16
J3	17-24
J4	25-32

chapter 3 *XCP-16-DB9-T 9000-7837-000*



The XCP-16-DB9-T is the newly created 16-port DB9 breakout panel with MDR connector and an audio transformer for the Cronus and AIO-16. It allows you to expand the number of DB-9 serial ports in the Intercom system.

NOTE: When using the 32-port DB-9 breakout panel, you MUST use the MDR backcard for both the AIO-16 and Cronus.

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9-pin Male D-sub		
Pin 1	Keypanel Data +	
Pin 2	Keypanel Data -	
Pin 3	N/A	
Pin 4	Audio Out +	
Pin 5	Audio Out -	
Pin 6	N/A	
Pin 7	Audio In -	
Pin 8	Audio In +	
Pin 9	N/A	

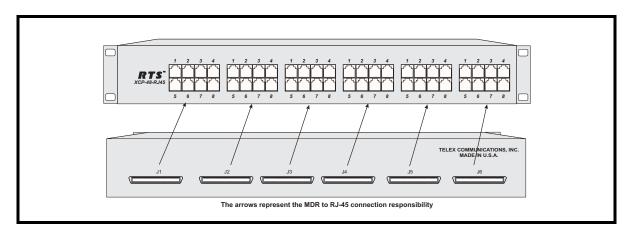
MDR Connector			
Pin Number	Port	Function	
8	1	Data +	
33	1	Data -	
24	1	Audio To Matrix +	
49	1	Audio To Matrix -	
25	1	Audio From Matrix +	
50	1	Audio From Matrix -	
7	2	Data +	
32	2	Data -	
22	2	Audio To Matrix +	
47	2	Audio To Matrix -	
23	2	Audio From Matrix +	
48	2	Audio From Matrix -	
6	3	Data +	
31	3	Data -	
20	3	Audio To Matrix +	
45	3	Audio To Matrix -	
21	3	Audio From Matrix +	
46	3	Audio From Matrix -	

MDR Connector			
Pin Number	Port	Function	
5	4	Data +	
30	4	Data +	
18	4	Audio To Matrix +	
43	4	Audio To Matrix -	
19	4	Audio From Matrix +	
44	4	Audio From Matrix -	
4	5	Data +	
29	5	Data +	
16	5	Audio To Matrix +	
41	5	Audio To Matrix -	
17	5	Audio From Matrix +	
42	5	Audio From Matrix -	
3	6	Data +	
28	6	Data +	
14	6	Audio To Matrix +	
39	6	Audio To Matrix -	
15	6	Audio From Matrix +	
40	6	Audio From Matrix -	
2	7	Data +	
27	7	Data +	
12	7	Audio To Matrix +	
37	7	Audio To Matrix -	
13	7	Audio From Matrix +	
38	7	Audio From Matrix -	
1	8	Data +	
26	8	Data +	
10	8	Audio To Matrix +	
35	8	Audio To Matrix -	
11	8	Audio From Matrix +	
36	8	Audio From Matrix -	
		1	

NOTE: There are 2 MDR connectors on the XCP-32-DB9-T Breakout panel. .

MDR Connector	Port
J1	1-8
J2	9-16

chapter 4 XCP-48-RJ45 9000-7809-000



The XCP-48-RJ45 is the newly created 48-port RJ-45 breakout panel with MDR connector for the AIO-16 and Cronus. It allow you to expand the number of RJ-45 ports on the Intercom system.

NOTE: When using the 48-port RJ-45 breakout panel, you MUST use the MDR backcard for both the AIO-16 and Cronus.

RJ-45		
Pin 1	N/A	
Pin 2	Keypanel Data -	
Pin 3	Audio Out +	
Pin 4	Audio In +	
Pin 5	Audio In -	
Pin 6	Audio Out -	
Pin 7	Keypanel Data +	
Pin 8	N/A	

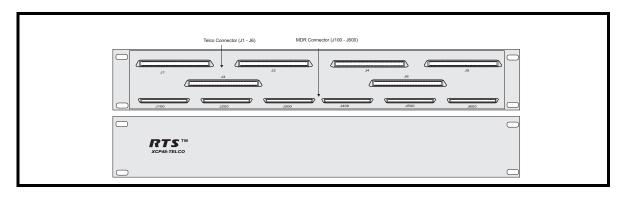
MDR Connector		
Pin Number	Port	Function
8	1	Data +
33	1	Data -
24	1	Audio To Matrix +
49	1	Audio To Matrix -
25	1	Audio From Matrix +
50	1	Audio From Matrix -
7	2	Data +
32	2	Data -
22	2	Audio To Matrix +
47	2	Audio To Matrix -
23	2	Audio From Matrix +
48	2	Audio From Matrix -
6	3	Data +
31	3	Data -

MDR Connector		
Pin Number	Port	Function
20	3	Audio To Matrix +
45	3	Audio To Matrix -
21	3	Audio From Matrix +
46	3	Audio From Matrix -
5	4	Data +
30	4	Data +
18	4	Audio To Matrix +
43	4	Audio To Matrix -
19	4	Audio From Matrix +
44	4	Audio From Matrix -
4	5	Data +
29	5	Data +
16	5	Audio To Matrix +
41	5	Audio To Matrix -
17	5	Audio From Matrix +
42	5	Audio From Matrix -
3	6	Data +
28	6	Data +
14	6	Audio To Matrix +
39	6	Audio To Matrix -
15	6	Audio From Matrix +
40	6	Audio From Matrix -
	1	
2	7	Data +
27	7	Data +
12	7	Audio To Matrix +
37	7	Audio To Matrix -
13	7	Audio From Matrix +
38	7	Audio From Matrix -
	1	
1	8	Data +
26	8	Data +
10	8	Audio To Matrix +
35	8	Audio To Matrix -
11	8	Audio From Matrix +
36	8	Audio From Matrix -

NOTE: There are 6 MDR connectors on the XCP-48 RJ-45 Breakout panel.

MDR Connector	Port
J1	1-8
J2	9-16
J3	17-24
J4	25-32
J5	33-40
J6	41-48

снартея 5 *XCP-48-Telco* 9000-7822-000



The XCP-48-Telco is the newly created breakout panel with MDR connector for the AIO-16 and Cronus. It combines the audio to matrix, audio from matrix, and data pairs. It then routes them on individual Telco connectors. It allow yout to connect to 48 ports on the Intercom system.

NOTE: When using the 48-port Telco breakout panel, you MUST use the MDR backcard for both the AIO-16 and Cronus.

MDR Connector		
Pin Number	Port	Function
8	1	Data +
33	1	Data -
24	1	Audio To Matrix +
49	1	Audio To Matrix -
25	1	Audio From Matrix +
50	1	Audio From Matrix -
· · ·		
7	2	Data +
32	2	Data -

MDR Connector		
Pin Number	Port	Function
22	2	Audio To Matrix +
47	2	Audio To Matrix -
23	2	Audio From Matrix +
48	2	Audio From Matrix -
6	3	Data +
31	3	Data -
20	3	Audio To Matrix +
45	3	Audio To Matrix -
21	3	Audio From Matrix +
46	3	Audio From Matrix -
5	4	Data +
30	4	Data +
18	4	Audio To Matrix +
43	4	Audio To Matrix -
19	4	Audio From Matrix +

MDR Connector		
Pin Number	Port	Function
44	4	Audio From Matrix -
4	5	Data +
29	5	Data +
16	5	Audio To Matrix +
41	5	Audio To Matrix -
17	5	Audio From Matrix +
42	5	Audio From Matrix -
3	6	Data +
28	6	Data +
14	6	Audio To Matrix +
39	6	Audio To Matrix -
15	6	Audio From Matrix +
40	6	Audio From Matrix -
2	7	Data +
27	7	Data +
12	7	Audio To Matrix +
37	7	Audio To Matrix -
13	7	Audio From Matrix +
38	7	Audio From Matrix -
1	8	Data +
26	8	Data +
10	8	Audio To Matrix +
35	8	Audio To Matrix -
11	8	Audio From Matrix +
36	8	Audio From Matrix -

NOTE: There are 6 MDR connectors on the XCP-48-TELCO Breakout Panel.

MDR Connector	Port
J100	1-8
J200	9-16
J300	17-24
J400	25-32
J500	33-40
J600	41-48

Telco Connector - J1, J4		
Pin Number	Port	Function
1	1	Audio to Matrix +
26	1	Audio to Matrix -
2	2	Audio to Matrix +
27	2	Audio to Matrix -
3	3	Audio to Matrix +
28	3	Audio to Matrix -
4	4	Audio to Matrix +
29	4	Audio to Matrix -
	1	
5	5	Audio to Matrix +
30	5	Audio to Matrix -
6	6	Audio to Matrix +
31	6	Audio to Matrix -
	1	1
7	7	Audio to Matrix +
32	7	Audio to Matrix -
8	8	Audio to Matrix +
33	8	Audio to Matrix -
9	9	Audio to Matrix +
34	9	Audio to Matrix -
		1
10	10	Audio to Matrix +
35	10	Audio to Matrix -
11	11	Audio to Matrix +
36	11	Audio to Matrix -
50		
12	12	Audio to Matrix +
37	12	Audio to Matrix -
	1	
13	13	Audio to Matrix +
38	13	Audio to Matrix -
14	14	Audio to Matrix +
39	14	Audio to Matrix -
		1
15	15	Audio to Matrix +
40	15	Audio to Matrix -

Telco Connector - J1, J4		
Pin Number	Port	Function
16	16	Audio to Matrix +
41	16	Audio to Matrix -
17	17	Audio to Matrix +
42	17	Audio to Matrix -
18	18	Audio to Matrix +
43	18	Audio to Matrix -
19	19	Audio to Matrix +
44	19	Audio to Matrix -
20	20	Audio to Matrix +
45	20	Audio to Matrix -
21	21	Audio to Matrix +
46	21	Audio to Matrix -
22	22	Audio to Matrix +
47	22	Audio to Matrix -
23	23	Audio to Matrix +
48	23	Audio to Matrix -
24	24	Audio to Matrix +
49	24	Audio to Matrix -

Telco Connector - J2, J5		
Pin Number	Port	Function
1	1	Audio from Matrix +
26	1	Audio from Matrix -
2	2	Audio from Matrix +
27	2	Audio from Matrix -
3	3	Audio from Matrix +
28	3	Audio from Matrix -
4	4	Audio from Matrix +
29	4	Audio from Matrix -

Telco Connector - J2, J5		
Pin Number	Port	Function
5	5	Audio from Matrix +
30	5	Audio from Matrix -
6	6	Audio from Matrix +
31	6	Audio from Matrix -
7	7	Audio from Matrix +
32	7	Audio from Matrix -
8	8	Audio from Matrix +
33	8	Audio from Matrix -
9	9	Audio from Matrix +
34	9	Audio from Matrix -
54	,	Audio Itolii Mauta -
10	10	Audio from Matrix +
35	10	Audio from Matrix -
11	11	Audio from Matrix +
36	11	Audio from Matrix -
12	12	Audio from Matrix +
37	12	Audio from Matrix -
13	13	Audio from Matrix +
38	13	Audio from Matrix -
50	15	
14	14	Audio from Matrix +
39	14	Audio from Matrix -
	•	
15	15	Audio from Matrix +
40	15	Audio from Matrix -
16	16	Audio from Matrix +
41	16	Audio from Matrix -
17	17	Audio from Matrix +
42	17	Audio from Matrix -
12	.,	- Indio Ironi muuta -
18	18	Audio from Matrix +
43	18	Audio from Matrix -
	•	·

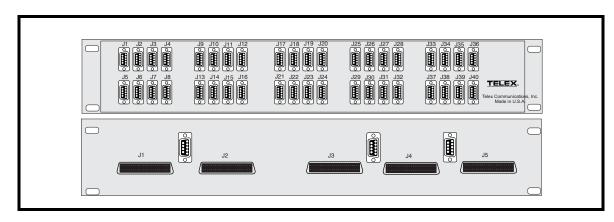
Telco Connector - J2, J5		
Port	Function	
19	Audio from Matrix +	
19	Audio from Matrix -	
20	Audio from Matrix +	
20	Audio from Matrix -	
21	Audio from Matrix +	
21	Audio from Matrix -	
22	Audio from Matrix +	
22	Audio from Matrix -	
23	Audio from Matrix +	
23	Audio from Matrix -	
24	Audio from Matrix +	
24	Audio from Matrix -	
	Port 19 19 20 20 21 21 22 23 23 24	

Telco Connector - J3, J6		
Pin Number	Port	Function
1	1	Data +
26	1	Data -
2	2	Data +
27	2	Data -
3	3	Data +
28	3	Data -
4	4	Data +
29	4	Data -
5	5	Data +
30	5	Data -
6	6	Data +
31	6	Data -
7	7	Data +
32	7	Data -
· · ·		
8	8	Data +

	Telco Co	nnector - J3, J6
Pin Number Port Function		
33	8	Data -
		•
9	9	Data +
34	9	Data -
	-	1
10	10	Data +
35	10	Datax -
11	11	Data
11 36	11 11	Data + Data -
30	11	Data -
12	12	Data +
37	12	Data -
	1	I
13	13	Data +
38	13	Data -
14	14	Data +
39	14	Data -
	1	1
15	15	Data +
40	15	Data -
16	16	Data +
41	16	Data -
	10	Duiu
17	17	Data +
42	17	Data -
18	18	Data +
43	18	Data -
	1	1
19	19	Data +
44	19	Data -
20	20	Detect
20	20	Data +
45	20	Data -
21	21	Data +
46	21	Data -
	1	I
22	22	Data +
47	22	Data -

Telco Connector - J3, J6			
Pin Number	Port	Function	
23	23	Data +	
48	23	Data -	
24	24	Data +	
49	24	Data -	

chapter 6 *XCP-40-DB9* 9000-7515-000



The XCP-40-DB9 breakout panel allows for the expansion of the ADAM frame at 40+, 80+, and 120+. When using the 40-port DB-9 breakout panel, you must use the SCSI backcard with the AIO-16 card.

9-pin Male D-sub	
Pin 1	Keypanel Data +
Pin 2	Keypanel Data -
Pin 3	N/A
Pin 4	Audio Out +
Pin 5	Audio Out -
Pin 6	N/A
Pin 7	Audio In -
Pin 8	Audio In +
Pin 9	N/A

SCSI Connector - J1, J2, J3, J4, J5		
Pin Number	Port	Function
2		Data +
27		Data -
34	1	Audio To Matrix +
9	1	Audio To Matrix -
35	1	Audio From Matrix +
10	1	Audio From Matrix -
36	2	Audio To Matrix +
11	2	Audio To Matrix -
37	2	Audio From Matrix +
12	2	Audio From Matrix -
i		
38	3	Audio To Matrix +
13	3	Audio To Matrix -
39	3	Audio From Matrix +

SCSI Connector - J1, J2, J3, J4, J5		
Pin Number	Port	Function
14	3	Audio From Matrix -
40	4	Audio To Matrix +
15	4	Audio To Matrix -
41	4	Audio From Matrix +
16	4	Audio From Matrix -
42	5	Audio To Matrix +
17	5	Audio To Matrix -
43	5	Audio From Matrix +
18	5	Audio From Matrix -
44	6	Audio To Matrix +
19	6	Audio To Matrix -
45	6	Audio From Matrix +
20	6	Audio From Matrix -
46	7	Audio To Matrix +
21	7	Audio To Matrix -
47	7	Audio From Matrix +
22	7	Audio From Matrix -
· · ·		
48	8	Audio To Matrix +
23	8	Audio To Matrix -
49	8	Audio From Matrix +
24	8	Audio From Matrix -

chapter 7 XCP-40-RJ11 9000-7494-000

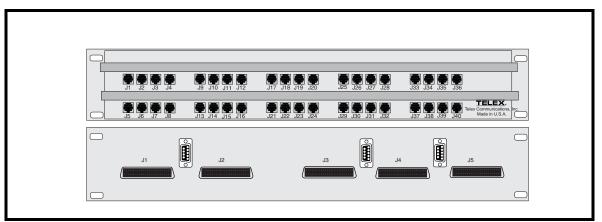


Figure 3.

The XCP-40-RJ-12 Breakout Panel allows for the expansion of the ADAM frame using RJ-12 connectors. When using the 40-port RJ-12 breakout panel, you MUST use the SCSI backcard with the AIO-16 card.

RJ-12 Connector	
Pin 1	Keypanel Data -
Pin 2	Audio Out +
Pin 3	Audio In +
Pin 4	Audio In -
Pin 5	Audio Out -
Pin 6	Keypanel Data +

SCSI Connector - J1, J2, J3, J4, J5		
Pin Number	Port	Function
2		Data +
27		Data -

SCSI Connector - J1, J2, J3, J4, J5		
Pin Number	Port	Function
34	1	Audio To Matrix +
9	1	Audio To Matrix -
35	1	Audio From Matrix +
10	1	Audio From Matrix -
36	2	Audio To Matrix +
11	2	Audio To Matrix -
37	2	Audio From Matrix +
12	2	Audio From Matrix -
	-	-
38	3	Audio To Matrix +
13	3	Audio To Matrix -
39	3	Audio From Matrix +
14	3	Audio From Matrix -

SCSI Connector - J1, J2, J3, J4, J5		
Pin Number	Port	Function
40	4	Audio To Matrix +
15	4	Audio To Matrix -
41	4	Audio From Matrix +
16	4	Audio From Matrix -
		·
42	5	Audio To Matrix +
17	5	Audio To Matrix -
43	5	Audio From Matrix +
18	5	Audio From Matrix -
	•	
44	6	Audio To Matrix +
19	6	Audio To Matrix -
45	6	Audio From Matrix +
20	6	Audio From Matrix -
		·
46	7	Audio To Matrix +
21	7	Audio To Matrix -
47	7	Audio From Matrix +
22	7	Audio From Matrix -
· · ·		
48	8	Audio To Matrix +
23	8	Audio To Matrix -
49	8	Audio From Matrix +
24	8	Audio From Matrix -

снартер 8 *XCP-24* 9000-7559-000

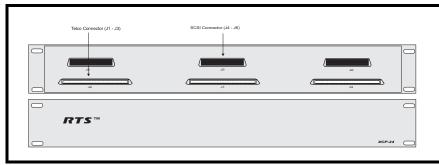


Figure 4.

The XCP-24 Breakout Panel allows for the expansion of the ADAM frame using TELCO connectors. When using the XCP-24 breakout panel, you must use the SCSI backcard with the AIO-16 card.

SCSI Connector - J1, J2, J3, J4, J5		
Pin Number	Port	Function
2		Data +
27		Data -
· · · ·		
34	1	Audio To Matrix +
9	1	Audio To Matrix -
35	1	Audio From Matrix +
10	1	Audio From Matrix -
36	2	Audio To Matrix +
11	2	Audio To Matrix -
37	2	Audio From Matrix +

SCSI Connector - J1, J2, J3, J4, J5		
Pin Number	Port	Function
12	2	Audio From Matrix -
38	3	Audio To Matrix +
13	3	Audio To Matrix -
39	3	Audio From Matrix +
14	3	Audio From Matrix -
40	4	Audio To Matrix +
15	4	Audio To Matrix -
41	4	Audio From Matrix +
16	4	Audio From Matrix -
42	5	Audio To Matrix +
17	5	Audio To Matrix -
43	5	Audio From Matrix +
18	5	Audio From Matrix -

SCSI Connector - J1, J2, J3, J4, J5		
Pin Number	Port	Function
44	6	Audio To Matrix +
19	6	Audio To Matrix -
45	6	Audio From Matrix +
20	6	Audio From Matrix -
46	7	Audio To Matrix +
21	7	Audio To Matrix -
47	7	Audio From Matrix +
22	7	Audio From Matrix -
48	8	Audio To Matrix +
23	8	Audio To Matrix -
49	8	Audio From Matrix +
24	8	Audio From Matrix -

Telco Backcard - Telco Connector - J1		
Port	Function	
1	Audio To Matrix +	
1	Audio To Matrix -	
2	Audio To Matrix +	
2	Audio To Matrix -	
3	Audio To Matrix +	
3	Audio To Matrix -	
-		
4	Audio To Matrix +	
4	Audio To Matrix -	
5	Audio To Matrix +	
5	Audio To Matrix -	
6	Audio To Matrix +	
6	Audio To Matrix -	
	•	
7	Audio To Matrix +	
7	Audio To Matrix -	
8	Audio To Matrix +	
8	Audio To Matrix -	
9	Audio To Matrix +	
	Port 1 1 1 2 2 2 3 3 3 3 4 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8	

Pin Number Port Function 34 9 Audio To Matrix - 10 10 Audio To Matrix + 35 10 Audio To Matrix - 11 11 Audio To Matrix + 36 11 Audio To Matrix + 36 11 Audio To Matrix + 37 12 Audio To Matrix + 37 12 Audio To Matrix + 38 13 Audio To Matrix + 38 13 Audio To Matrix + 39 14 Audio To Matrix + 40 15 Audio To Matrix - 16 16 Audio To Matrix +	Telc	o Backcard - T	elco Connector - J1
10 10 Audio To Matrix + 35 10 Audio To Matrix - 11 11 Audio To Matrix + 36 11 Audio To Matrix + 36 11 Audio To Matrix + 37 12 Audio To Matrix + 37 12 Audio To Matrix + 38 13 Audio To Matrix + 39 14 Audio To Matrix + 39 14 Audio To Matrix + 40 15 Audio To Matrix - 16 16 Audio To Matrix +		Port	Function
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38 13 Audio To Matrix - 14 14 Audio To Matrix + 39 14 Audio To Matrix - 15 15 Audio To Matrix + 40 15 Audio To Matrix - 16 16 Audio To Matrix +	37	12	Audio To Matrix -
38 13 Audio To Matrix - 14 14 Audio To Matrix + 39 14 Audio To Matrix - 15 15 Audio To Matrix + 40 15 Audio To Matrix - 16 16 Audio To Matrix +			
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39 14 Audio To Matrix - 15 15 Audio To Matrix + 40 15 Audio To Matrix - 16 16 Audio To Matrix +	38	13	Audio To Matrix -
39 14 Audio To Matrix - 15 15 Audio To Matrix + 40 15 Audio To Matrix - 16 16 Audio To Matrix +		r	
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40 15 Audio To Matrix - 16 16 Audio To Matrix +	39	14	Audio To Matrix -
40 15 Audio To Matrix - 16 16 Audio To Matrix +	15	15	Audio To Matrix +
16 16 Audio To Matrix +			
	10	10	
41 16 Audio To Matrix -	16	16	Audio To Matrix +
	41	16	Audio To Matrix -
		[
17 17 Audio To Matrix +			
42 17 Audio To Matrix -	42	17	Audio To Matrix -
18 18 Audio To Matrix +	18	18	Audio To Matrix
43 18 Audio To Matrix -	-	-	
19 19 Audio To Matrix +	19	19	Audio To Matrix +
44 19 Audio To Matrix -	44	19	Audio To Matrix -
20 20 Audio To Matrix +	20	20	Audio To Matrix +
45 20 Audio To Matrix -	45	20	Audio To Matrix -
	21	21	
21 21 Audio To Matrix +			
46 21 Audio To Matrix -	40	21	Audio 10 Matrix -
22 22 Audio To Matrix +	22	22	Audio To Matrix +
47 22 Audio To Matrix -			
		1	L
23 23 Audio To Matrix +	23	23	Audio To Matrix +
48 23 Audio To Matrix -	48	23	Audio To Matrix -

XCP-24 9000-7559-000

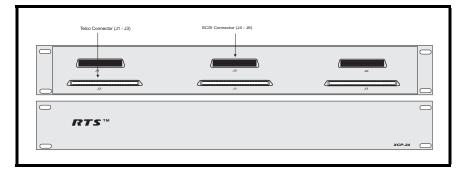
Telco Backcard - Telco Connector - J1		
Pin Number	Port	Function
24	24	Audio To Matrix +
49	24	Audio To Matrix -

Telco Backcard - Telco Connector - J2			
Pin Number	Port	Function	
1	1	Audio From Matrix +	
26	1	Audio From Matrix -	
2	2	Audio From Matrix +	
27	2	Audio From Matrix -	
3	3	Audio From Matrix +	
28	3	Audio From Matrix -	
4	4	Audio From Matrix +	
29	4	Audio From Matrix -	
		1	
5	5	Audio From Matrix +	
30	5	Audio From Matrix -	
		1	
6	6	Audio From Matrix +	
31	6	Audio From Matrix -	
		1	
7	7	Audio From Matrix +	
32	7	Audio From Matrix -	
		1	
8	8	Audio From Matrix +	
33	8	Audio From Matrix -	
	r		
9	9	Audio From Matrix +	
34	9	Audio From Matrix -	
	r		
10	10	Audio From Matrix +	
35	10	Audio From Matrix -	
11	11	Audio From Matrix +	
36	11	Audio From Matrix -	
		ſ	
12	12	Audio From Matrix +	
37	12	Audio From Matrix -	

Telco Backcard - Telco Connector - J2		
Pin Number	Port	Function
13	13	Audio From Matrix +
38	13	Audio From Matrix -
14	14	Audio From Matrix +
39	14	Audio From Matrix -
	1	
15	15	Audio From Matrix +
40	15	Audio From Matrix -
16	16	Audio From Matrix +
41	16	Audio From Matrix -
17	17	Audio From Matrix +
42	17	Audio From Matrix -
10	10	Andia Franz Matrice
18 43	18 18	Audio From Matrix + Audio From Matrix -
43	16	Audio Fiolii Matila -
19	19	Audio From Matrix +
44	19	Audio From Matrix -
20	20	Audio From Matrix +
45	20	Audio From Matrix -
	1	1
21	21	Audio From Matrix +
46	21	Audio From Matrix -
22	22	Audio From Matrix +
47	22	Audio From Matrix -
23	23	Audio From Matrix +
48	23	Audio From Matrix -
		ſ
24	24	Audio From Matrix +
49	24	Audio From Matrix -

Telco Backcard - Telco Connector - J3		
Pin Number	Port	Function
1-8	1-8	Data +
25-33	1-8	Data -
9-16	9-16	Data +
34-41	9-16	Data -
17-24	17-24	Data +
42-49	17-24	Data -

chapter 9 XCP-24-USCO 9000-7559-001



The XCP-24-USCO Breakout Panel allows for the expansion of the ADAM frame using Telco connectors. When using the XCP-24-USCO breakout panel, you MUST use the SCSI backcard with the AIO-16 card

SCSI Connector - J4, J5, J6		
Pin Number	Port	Function
2		Data +
27		Data -
34	1	Audio To Matrix +
9	1	Audio To Matrix -
35	1	Audio From Matrix +
10	1	Audio From Matrix -
36	2	Audio To Matrix +
11	2	Audio To Matrix -
37	2	Audio From Matrix +
12	2	Audio From Matrix -
38	3	Audio To Matrix +

SCSI Connector - J4, J5, J6		
Pin Number	Port	Function
13	3	Audio To Matrix -
39	3	Audio From Matrix +
14	3	Audio From Matrix -
40	4	Audio To Matrix +
15	4	Audio To Matrix -
41	4	Audio From Matrix +
16	4	Audio From Matrix -
42	5	Audio To Matrix +
17	5	Audio To Matrix -
43	5	Audio From Matrix +
18	5	Audio From Matrix -
44	6	Audio To Matrix +
19	6	Audio To Matrix -
45	6	Audio From Matrix +
20	6	Audio From Matrix -

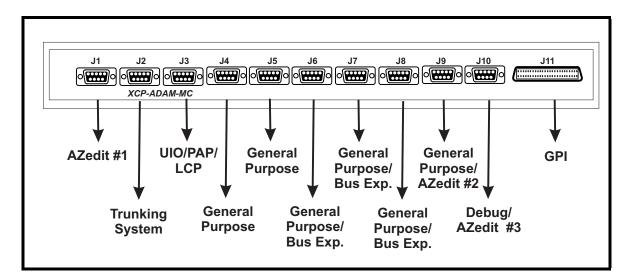
SCSI Connector - J4, J5, J6		
Pin Number	Port	Function
46	7	Audio To Matrix +
21	7	Audio To Matrix -
47	7	Audio From Matrix +
22	7	Audio From Matrix -
48	8	Audio To Matrix +
23	8	Audio To Matrix -
49	8	Audio From Matrix +
24	8	Audio From Matrix -

Telco Connector - J1		
Pin Number	Port	Function
1	1	Audio To Matrix -
26	1	Audio To Matrix +
2	1	Audio From Matrix -
27	1	Audio From Matrix +
3	1	Data -
28	1	Data +
4	2	Audio To Matrix -
29	2	Audio To Matrix +
5	2	Audio From Matrix -
30	2	Audio From Matrix +
6	2	Data -
31	2	Data +
7	3	Audio To Matrix -
32	3	Audio To Matrix +
8	3	Audio From Matrix -
33	3	Audio From Matrix +
9	3	Data -
34	3	Data +
10	4	Audio To Matrix -
35	4	Audio To Matrix +
	•	
11	4	Audio From Matrix -
36	4	Audio From Matrix +
	•	•

Telco Connector - J1			
Pin Number	Port	Function	
	r	1	
12	4	Data -	
37	4	Data +	
13	5	Audio To Matrix -	
38	5	Audio To Matrix +	
50	5	Audio 10 Maurix +	
14	5	Audio From Matrix -	
39	5	Audio From Matrix +	
	ſ	1	
15	5	Data -	
40	5	Data +	
16	6	Audio To Matrix -	
41	6	Audio To Matrix -	
41	0	Audio 10 Matrix +	
17	6	Audio From Matrix -	
42	6	Audio From Matrix +	
18	6	Data -	
43	6	Data +	
	Γ		
19	7	Audio To Matrix -	
44	7	Audio To Matrix +	
20	7	Audio From Matrix -	
45	7	Audio From Matrix +	
	l '		
21	7	Data -	
46	7	Data +	
22	8	Audio To Matrix -	
47	8	Audio To Matrix +	
	0		
23	8	Audio From Matrix -	
48	8	Audio From Matrix +	
24	8	Data	
24 49	8	Data -	
+7	0	Data +	

Telco Connector	Port
J2	9-16
J3	17-24

chapter 10 *XCP-ADAM-MC 9002-7514-100*



The XCP-ADAM-MC Breakout Panel affords the ADAM more connections to frame accessories without losing the connections to AZedit, and the ability to Trunk systems.

AZedit #1		
68-pin Master Controller	J-1 of XCP-ADAM- MC	Assignment 2W
1	1	RS485 TX/ RX-
3	2	RS232C RX
37	3	RS232C TX
4	4	RS422 TX-
2	5	Ground
2	6	Ground
38	7	RS422 TX+
35	8	RS485 TX/ RX+
	9	

Trunking System		
68-pin Master Controller	J-2 of XCP- ADAM-MC	Assignment 2W
5	1	RS485 TX/ RX-
36	2	Ground
6	3	RS232C RX
	4	Not Used
41	5	RS422 TX+
39	6	RS485 TX/ RX+
36	7	Ground
40	8	RS232C TX
7	9	RS422 TX-

UIO-256/PAP/LCP		
68-pin Master Controller	J-3 of XCP- ADAM-MC	Assignment 2W
8	1	RS485 TX/ RX-
9	2	Ground
	3	Not Used
	4	Not Used
44	5	RS422 TX+

UIO-256/PAP/LCP		
68-pin Master Controller	J-3 of XCP- ADAM-MC	Assignment 2W
42	6	RS485 TX/ RX+
9	7	Ground
	8	Not Used
10	9	RS422 TX-

General Purpose		
68-pin MasterJ-4 of XCP-ADAM- MCAssignment 2W		
11	1	RS485 TX/ RX-
43	2	Ground
	3	Not Used
	4	Not Used
46	5	RS422 TX+
45	6	RS485 TX/ RX+
43	7	Ground
	8	Not Used
12	9	RS422 TX-

General Purpose		
68-pin Master Controller	J-5 of XCP-ADAM- MC	Assignment 2W
11	1	RS485 TX/RX-
14	2	Ground
	3	Not Used
	4	Not Used
	5	Not Used
47	6	RS485 TX/RX+
14	7	Ground
	8	Not Used
	9	Not Used

XCP-ADAM-MC 9002-7514-100

General Purpose / Bus Exp.		
68-pin Master Controller	J-6 of XCP-ADAM- MC	Assignment 2W
15	1	RS485 TX/ RX-
48	2	Ground
	3	Not Used
	4	Not Used
	5	Not Used
49	6	RS485 TX/ RX+
48	7	Ground
	8	Not Used
	9	Not Used

General Purpose / Bus Exp.		
68-pin Master Controller	J-7 of XCP-ADAM- MC	Assignment 2W
16	1	RS485 TX/RX-
17	2	Ground
	3	Not Used
	4	Not Used
	5	Not Used
50	6	RS485 TX/ RX+
17	7	Ground
	8	Not Used
	9	Not Used

General Purpose / Bus Exp.		
68-pin Master Controller	J-8 of XCP-ADAM- MC	Assignment 2W
18	1	RS485 TX/RX-
51	2	Ground
	3	Not Used
	4	Not Used
	5	Not Used
52	6	RS485 TX/RX+
51	7	Ground

General Purpose / Bus Exp.		
68-pin Master Controller J-8 of XCP-ADAM- MC Assignment 2W		Assignment 2W
	8	Not Used
	9	Not Used

AZedit #2		
68-pin Master Controller	J-9 of XCP-ADAM- MC	Assignment 2W
	1	Not Used
19	2	Ground
20	3	RS232C RX
	4	Not Used
	5	Not Used
	6	Not Used
19	7	Ground
53	8	RS232C TX
	9	Not Used

AZedit #3		
68-pin Master Controller	J-10 of XCP-ADAM- MC	Assignment 2W
	1	Not Used
67	2	Ground
21	3	RS232C RX
	4	Not Used
	5	Not Used
	6	Not Used
67	7	Ground
54	8	RS232C TX
	9	Not Used

General Purpose			
68-pin Master Controller	J-11 of XCP-ADAM-MC	Assignment	Signal
22	1	MI (0)	Logical Input (0)
23	2	MI (1)	Logical Input (1)
24	3	MI (2)	Logical Input (2)
25	4	MI (3)	Logical Input (3)
26	5	MI (4)	Logical Input (4)
27	6	MI (5)	Logical Input (5)
28	7	MI (6)	Logical Input (6)
29	8	MI (7)	Logical Input (7)
30	9	Ground	Ground
31	10	Ground	Ground
32	11	Ground	Ground
33	12	Ground	Ground
34	13	Ground	Ground
55	14	MO (0)	Logical Output (0)
56	15	MO (1)	Logical Output (1)
57	16	MO (2)	Logical Output (2)
58	17	MO (3)	Logical Output (3)
59	18	MO (4)	Logical Output (4)
60	19	MO (5)	Logical Output (5)
61	20	MO (6)	Logical Output (6)
62	21	MO (7)	Logical Output (7)
63	22	Ground	Ground
64	23	Ground	Ground
65	24	Ground	Ground
66	25	Ground	Ground