RTS® Digital Matrix Intercom

Innovating the Future of Communications

Breakout Panel Resource Guide

includes:
XCP-955
XCP-32-DB9
XCP-16-DB9-T
XCP-48-RJ45
XCP-48-TELCO
XCP-40-DB9
XCP-40-RJ11
XCP-24
XCP-24-USOC
XCP-ADAM-MC

Proprietary Notice

Copyright Notice

Warranty Notice

See the enclosed warranty card for further details.

Customer Support

Technical questions should be directed to:

Customer Service Department
RTS/Telex Communications, Inc.
12000 Portland Avenue South
Burnsville, MN 55337 USA
Telephone: 800-392-3497
Fax: 800-323-0498

Return Shipping Instructions

Customer Service Department
Telex Communications, Inc. (Lincoln, NE)
Telephone: 402-467-5321
Fax: 402-467-3279
Factory Service: 800-553-5992

Please include a note in the box which supplies the company name, address, phone number, a person to contact regarding the repair, the type and quantity of equipment, a description of the problem and the serial number(s).

Shipping to the Manufacturer

All shipments of product should be made via UPS Ground, prepaid (you may request from Factory Service a different shipment method). Any shipment upgrades will be paid by the customer. The equipment should be shipped in the original packing carton. If the original carton is not available, use any suitable container that is rigid and of adequate size. If a substitute container is used, the equipment should be wrapped in paper and surrounded with at least four (4) inches of excelsior or similar shock-absorbing material. All shipments must be sent to the following address and must include the Proof of Purchase for warranty repair. Upon completion of any repair the equipment will be returned via United Parcel Service or specified shipper, collect.

Factory Service Department
Telex Communications, Inc.
8601 East Cornhusker Hwy.
Lincoln, NE 68507 U.S.A.
Attn: Service

This package should include the following:

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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, XCP-955, XCP-24, and the XCP-24-USOC.

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.

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.

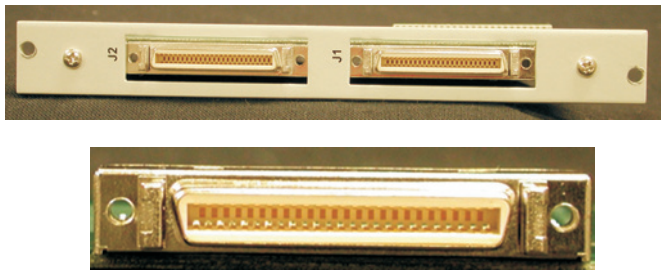

FIGURE 1. MDR backcard and connector.

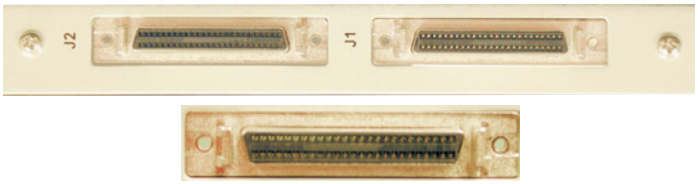

FIGURE 2. SCSI backcard and connector

CHAPTER 2

XCP-955
8800303674

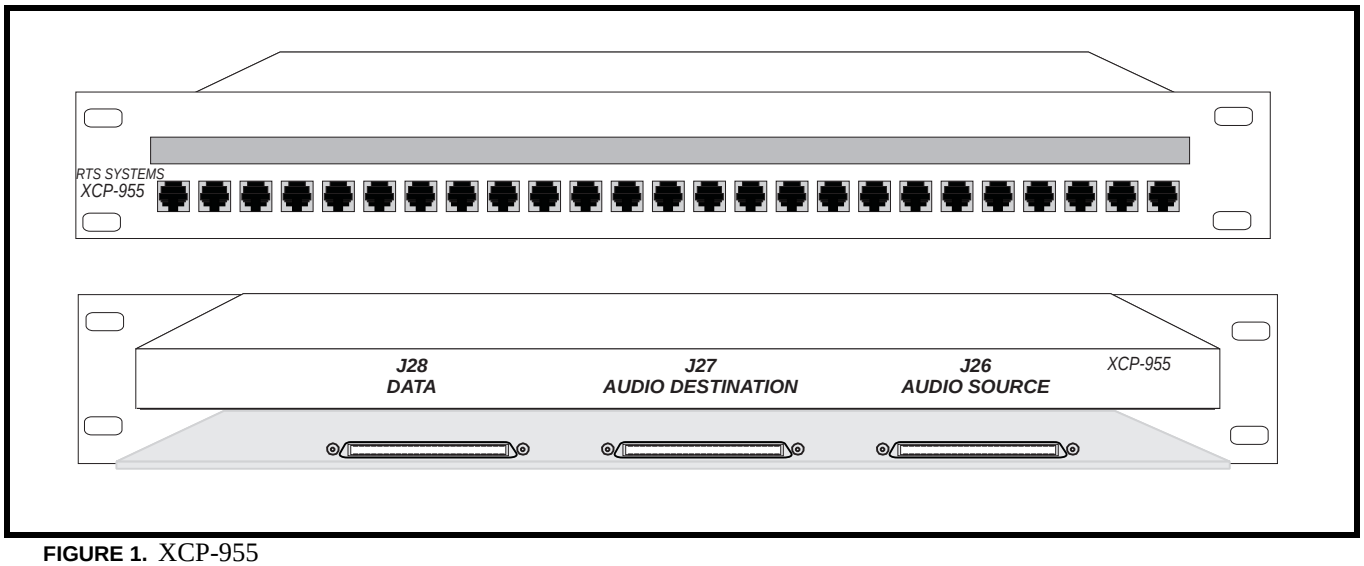

FIGURE 1. XCP-955

The XCP-955 is the 25-port RJ-11 breakout panel with SCSI connector for the ADAM.

Specifications

Dimensions:

18.98” (482mm) L x 1.69” (43mm) H x 0.55” (104mm) D

Weight:

1.6 lb (.725 kg)

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 +

Telco Backcard - Female Telco Connector - J27		
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 -
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 -
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 -

Telco Backcard - Female Telco Connector - J27		
Pin Number	**Port**	**Function**
13	13	Audio From Matrix +
38	13	Audio From Matrix -
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 -
18	18	Audio From Matrix +
43	18	Audio From Matrix -
19	19	Audio From Matrix +
44	19	Audio From Matrix -
20	20	Audio From Matrix +
45	20	Audio From Matrix -
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 -
24	24	Audio From Matrix +
49	24	Audio From Matrix -

Telco Backcard - Female Telco Connector - J26		
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 -
5	5	Audio To Matrix +
30	5	Audio To Matrix -
6	6	Audio To Matrix +
31	6	Audio To Matrix -
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 -
10	10	Audio To Matrix +
35	10	Audio To Matrix -
11	11	Audio To Matrix +
36	11	Audio To Matrix -
12	12	Audio To Matrix +
37	12	Audio To Matrix -
13	13	Audio To Matrix +
38	13	Audio To Matrix -

Telco Backcard - Female Telco Connector - J26		
Pin Number	**Port**	**Function**
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 +
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 Backcard - Female Telco Connector - J28		
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 3

XCP-32-DB9
9000-7810-000

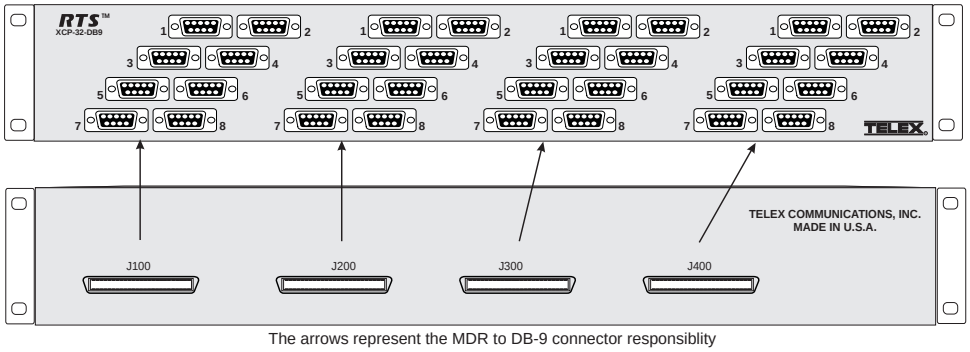

FIGURE 1. XCP-32 DB9

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.

Specifications

Dimensions:

19” (482.6mm) W x 3.5” (88.9mm) H x 1” (25.4mm) D

Weight:

1.7 lb. (0.77 kg)

9-pin Male D-sub	
Pin 1	Keypanel Data +
Pin 2	Keypanel Data -
Pin 3	Gnd
Pin 4	Audio to Matrix +
Pin 5	Audio to Matrix -
Pin 6	Gnd
Pin 7	Audio from Matrix -
Pin 8	Audio from Matrix +
Pin 9	Gnd

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 -
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 -

MDR Connector		
Pin Number	**Port**	**Function**
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 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 4

XCP-16-DB9-T
9000-7837-000

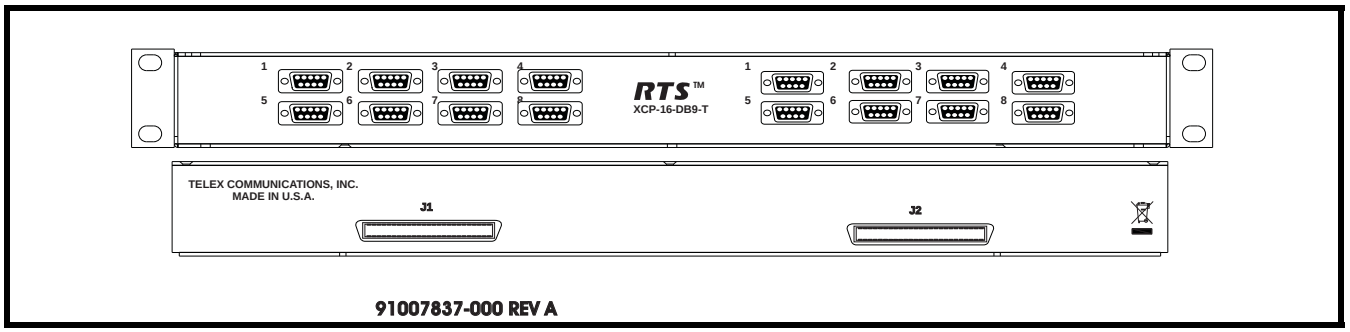

FIGURE 1. XCP-16-DB9-T

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.

Specifications

Dimensions:

18.98” (482mm) W x 1.69” (43mm) H x 3.11” (79mm) D

Weight:

2.2 lb. (1.0 kg)

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	Gnd
Pin 4	Audio to Matrix +
Pin 5	Audio to Matrix -
Pin 6	Gnd
Pin 7	Audio from Matrix -
Pin 8	Audio from Matrix +
Pin 9	Gnd

MDR Connector		
Pin Number	**Port**	**Function**
8	1	Data +
33	1	Data -

MDR Connector		
Pin Number	**Port**	**Function**
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 -
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 -

MDR Connector		
Pin Number	**Port**	**Function**
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 2 MDR connectors on the XCP-32-DB9-T Breakout panel.

MDR Connector	Port
J1	1-8
J2	9-16

CHAPTER 5

XCP-48-RJ45
9000-7809-000

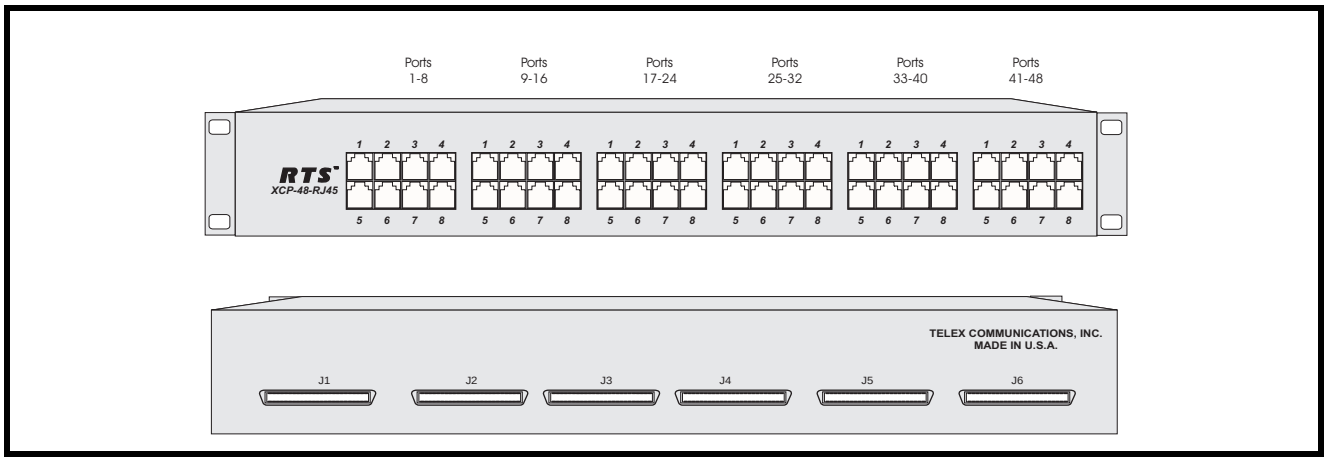

FIGURE 1. XCP-48-RJ45

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.

Specifications

Dimensions:

18.98” (482mm) W x 1.69” (43mm) H x 2.95” (75mm) D

Weight:

3.5 lb. (1.59 kg)

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 -
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 +

MDR Connector		
Pin Number	**Port**	**Function**
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 RJ-45 Breakout panel.

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

CHAPTER 6

XCP-48-Telco
9000-7822-000

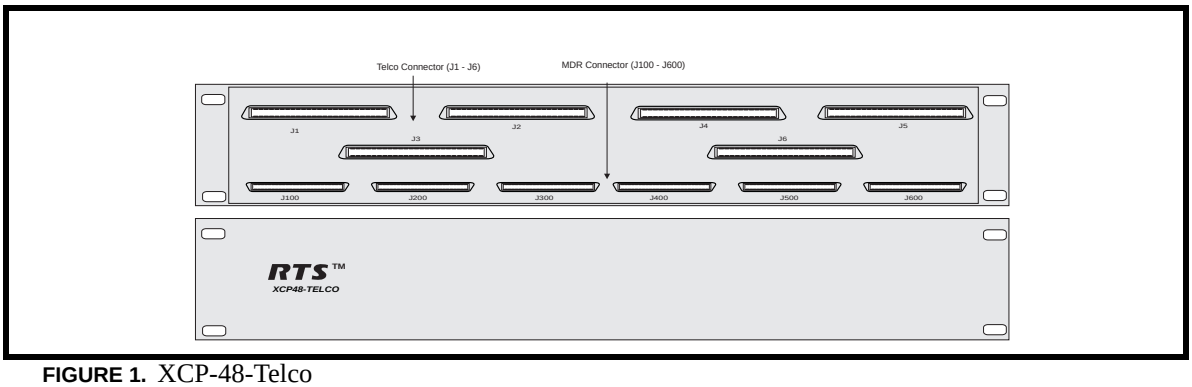

FIGURE 1. XCP-48-Telco

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 allows you to connect to 48 ports on the Intercom system.

Specifications

Dimensions:

18.98” (482mm) W x 3.39” (86mm) H x 2.95” (75mm) D

Weight:

2 lb. (.907 kg)

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 -
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 +
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 +

MDR Connector		
Pin Number	**Port**	**Function**
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

Female 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 -

Female Telco Connector - J1, J4		
Pin Number	**Port**	**Function**
4	4	Audio to Matrix +
29	4	Audio to Matrix -
5	5	Audio to Matrix +
30	5	Audio to Matrix -
6	6	Audio to Matrix +
31	6	Audio to Matrix -
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 -
10	10	Audio to Matrix +
35	10	Audio to Matrix -
11	11	Audio to Matrix +
36	11	Audio to Matrix -
12	12	Audio to Matrix +
37	12	Audio to Matrix -
13	13	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 +
41	16	Audio to Matrix -
17	17	Audio to Matrix +

Female Telco Connector - J1, J4		
Pin Number	**Port**	**Function**
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 -

Female 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 -
5	5	Audio from Matrix +
30	5	Audio from Matrix -

Female Telco Connector - J2, J5		
Pin Number	**Port**	**Function**
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 -
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 -
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 -
18	18	Audio from Matrix +
43	18	Audio from Matrix -

Female Telco Connector - J2, J5		
Pin Number	**Port**	**Function**
19	19	Audio from Matrix +
44	19	Audio from Matrix -
20	20	Audio from Matrix +
45	20	Audio from Matrix -
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 -
24	24	Audio from Matrix +
49	24	Audio from Matrix -

Female 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 +

Female Telco Connector - J3, J6		
Pin Number	**Port**	**Function**
32	7	Data -
8	8	Data +
33	8	Data -
9	9	Data +
34	9	Data -
10	10	Data +
35	10	Datax -
11	11	Data +
36	11	Data -
12	12	Data +
37	12	Data -
13	13	Data +
38	13	Data -
14	14	Data +
39	14	Data -
15	15	Data +
40	15	Data -
16	16	Data +
41	16	Data -
17	17	Data +
42	17	Data -
18	18	Data +
43	18	Data -
19	19	Data +
44	19	Data -
20	20	Data +

Female Telco Connector - J3, J6		
Pin Number	**Port**	**Function**
45	20	Data -
21	21	Data +
46	21	Data -
22	22	Data +
47	22	Data -
23	23	Data +
48	23	Data -
24	24	Data +
49	24	Data -

CHAPTER 7

XCP-40-DB9
9000-7515-000

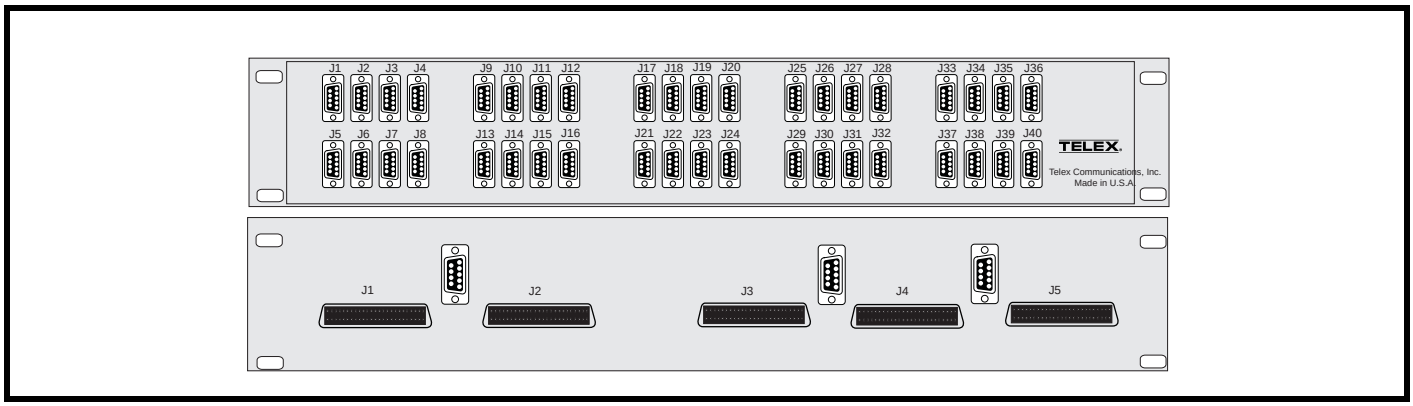

FIGURE 1. XCP-40-DB9

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.

Specifications

Dimensions:

19” (482.6mm) W x 3.5” (88.9mm) H x 1.25” (31.75mm) D

Weight:

1.95 lb. (0.88 kg)

9-pin Male D-sub	
Pin 1	Keypanel Data +
Pin 2	Keypanel Data -
Pin 3	Gnd
Pin 4	Audio to Matrix +
Pin 5	Audio to Matrix -
Pin 6	Gnd
Pin 7	Audio from Matrix -
Pin 8	Audio from Matrix +
Pin 9	Gnd

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 -
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 -
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 +

SCSI Connector - J1, J2, J3, J4, J5		
Pin Number	**Port**	**Function**
23	8	Audio To Matrix -
49	8	Audio From Matrix +
24	8	Audio From Matrix -

CHAPTER 8

XCP-40-RJ11
9000-7494-000

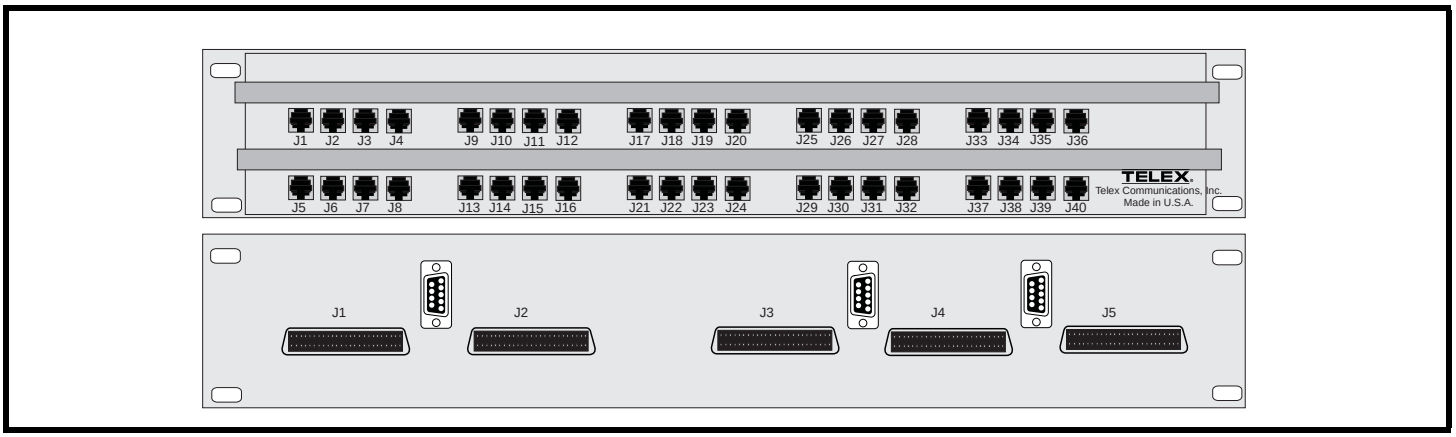

FIGURE 1. XCP-40-RJ11

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.

Specifications

Dimensions:

19” (482.6mm) W x 3.5” (88.9mm) H x 1.25” (31.75mm) D

Weight:

1.75 lb. (0.79 kg)

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 -
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 -

SCSI Connector - J1, J2, J3, J4, J5		
Pin Number	**Port**	**Function**
49	8	Audio From Matrix +
24	8	Audio From Matrix -

CHAPTER 9

XCP-24
9000-7559-000

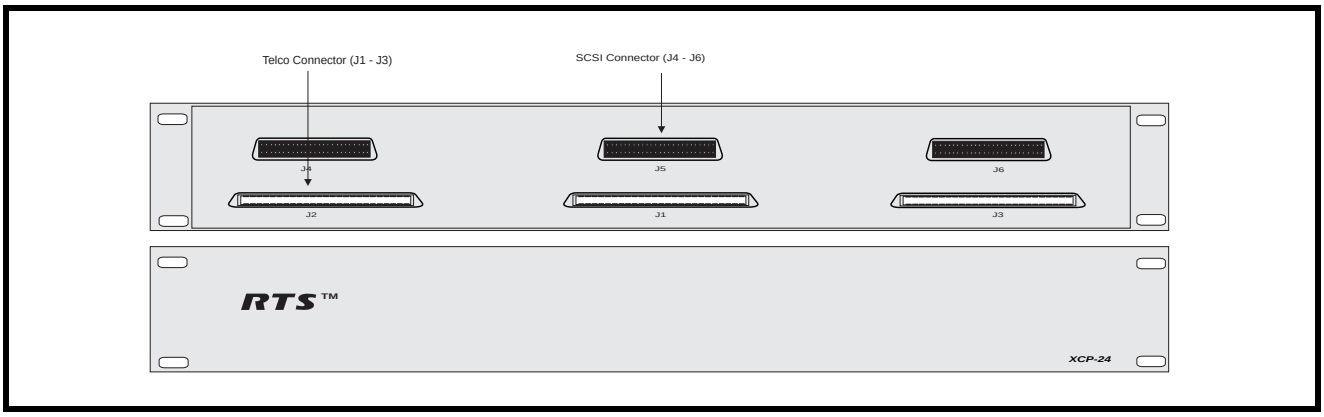

FIGURE 1. XCP-24

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.

Specifications

Dimensions:

18.98” (482mm) W x 1.69” (43mm) H x.354” (9mm) D

Weight:

1 lb. (.4535924 kg)

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 -
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 -
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 -

SCSI Connector - J1, J2, J3, J4, J5		
Pin Number	**Port**	**Function**
48	8	Audio To Matrix +
23	8	Audio To Matrix -
49	8	Audio From Matrix +
24	8	Audio From Matrix -

Telco Backcard - Female Telco Connector - J1		
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 -
5	5	Audio To Matrix +
30	5	Audio To Matrix -
6	6	Audio To Matrix +
31	6	Audio To Matrix -
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 -
10	10	Audio To Matrix +
35	10	Audio To Matrix -

Telco Backcard - Female Telco Connector - J1		
Pin Number	**Port**	**Function**
11	11	Audio To Matrix +
36	11	Audio To Matrix -
12	12	Audio To Matrix +
37	12	Audio To Matrix -
13	13	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 +
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 -

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

Telco Backcard - Female 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 -
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 -
10	10	Audio From Matrix +
35	10	Audio From Matrix -
11	11	Audio From Matrix +
36	11	Audio From Matrix -

Telco Backcard - Female Telco Connector - J2		
Pin Number	**Port**	**Function**
12	12	Audio From Matrix +
37	12	Audio From Matrix -
13	13	Audio From Matrix +
38	13	Audio From Matrix -
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 -
18	18	Audio From Matrix +
43	18	Audio From Matrix -
19	19	Audio From Matrix +
44	19	Audio From Matrix -
20	20	Audio From Matrix +
45	20	Audio From Matrix -
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 -
24	24	Audio From Matrix +
49	24	Audio From Matrix -

Telco Backcard - Female 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 -

XCP-24-USOC
9000-7559-001

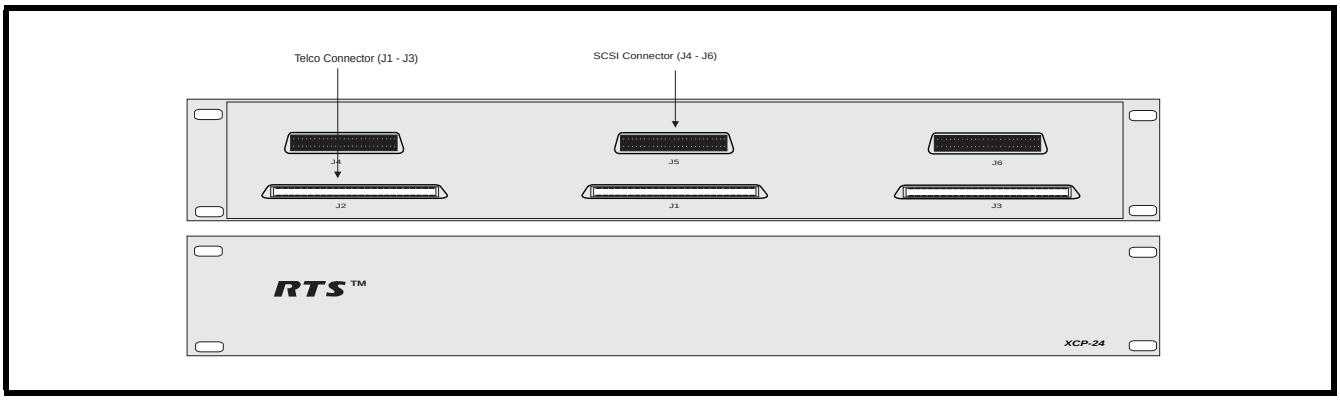

FIGURE 1. XCP-24-USOC

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

Specifications

Dimensions:

18.98” (482mm) W x 1.69” (43mm) H x.354” (9mm) D

Weight:

1 lb. (.4535924 kg)

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 +
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 -
46	7	Audio To Matrix +
21	7	Audio To Matrix -
47	7	Audio From Matrix +
22	7	Audio From Matrix -

SCSI Connector - J4, J5, J6		
Pin Number	**Port**	**Function**
48	8	Audio To Matrix +
23	8	Audio To Matrix -
49	8	Audio From Matrix +
24	8	Audio From Matrix -

Female 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 -

Female Telco Connector - J1		
Pin Number	**Port**	**Function**
36	4	Audio From Matrix +
12	4	Data -
37	4	Data +
13	5	Audio To Matrix -
38	5	Audio To Matrix +
14	5	Audio From Matrix -
39	5	Audio From Matrix +
15	5	Data -
40	5	Data +
16	6	Audio To Matrix -
41	6	Audio To Matrix +
17	6	Audio From Matrix -
42	6	Audio From Matrix +
18	6	Data -
43	6	Data +
19	7	Audio To Matrix -
44	7	Audio To Matrix +
20	7	Audio From Matrix -
45	7	Audio From Matrix +
21	7	Data -
46	7	Data +
22	8	Audio To Matrix -
47	8	Audio To Matrix +
23	8	Audio From Matrix -
48	8	Audio From Matrix +

Female Telco Connector - J1		
Pin Number	**Port**	**Function**
24	8	Data -
49	8	Data +

Female Telco Connector	Port
J2	9-16
J3	17-24

XCP-ADAM-MC
9000-7556-000

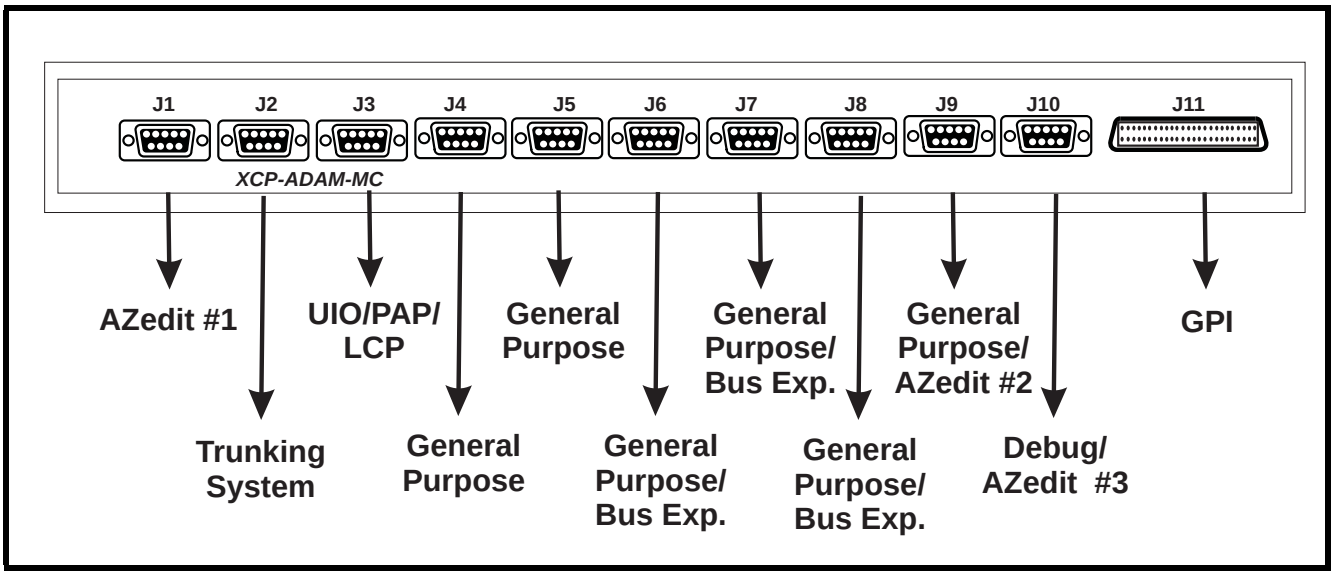

FIGURE 1. XCP-ADAM-MC

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.

Specifications

Dimensions:

18.98” (482mm) W x 1.69” (43mm) H x.472” (12mm) D

Weight:

1 lb. (.4535924 kg)

Baud Rates for the XCP-ADAM-MC

NOTE: J9 and J10 are RS-232, J7 and J8 are RS-485. In DBX systems, you can elect whether to use J7 and J8 or J9 and J10 for your second and third AZedit ports.

CONNECTOR	DESCRIPTION	BAUD RATE
J1	AZedit	9600 or 38.4K
J2	Trunking	9600 or 38.4K
J3	UIO/PAP	76.8K
J4	PAP-32	9600
J5	not used	
J6	not used	
J7	General Purpose/Bus Exp	9600, 19.2K, or 38.4K
J8	General Purpose/Bus Exp	9600, 19.2K, or 38.4K
J9	AZedit	9600, 19.2K, or 38.4K
J10	AZedit	9600, 19.2K, or 38.4K

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+
42	6	RS485 TX/RX+
9	7	Ground
	8	Not Used
10	9	RS422 TX-

UIO-256/PAP/LCP		
68-pin Master Controller	**J-3 of XCP-ADAM-MC**	**Assignment 2W**
	3	Not Used
	4	Not Used
44	5	RS422 TX+
42	6	RS485 TX/RX+
9	7	Ground
	8	Not Used
10	9	RS422 TX-

General Purpose		
68-pin Master Controller	**J-4 of XCP-ADAM-MC**	**Assignment 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 / 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		
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

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
	8	Not Used
	9	Not Used

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	

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

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

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