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**

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RadioCom ..... www.telexradiocom.com/warranty

Headsets ..... www.intercomheadsts.com/warranty

## Customer Support

Technical questions should be directed to:

Customer Service Department
Bosch Security Systems, Inc.
12000 Portland Avenue South
Burnsville, MN 55337 USA
Telephone: 877-863-4169
Fax: 800-323-0498
Info@rtsintercoms.com

Technical Questions EMEA
Bosch Security Systems Technical Support EMEA
http://www.rtsintercoms.com/contact_main.php

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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 nine 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.

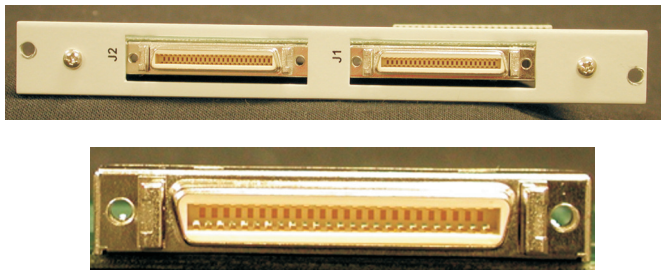




**FIGURE 1.** MDR backcard and connector.

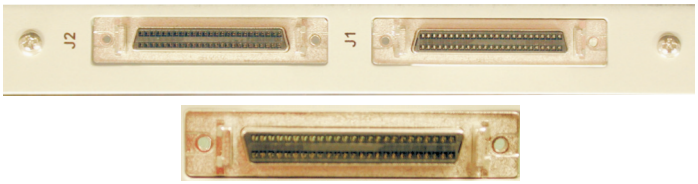




**FIGURE 2.** SCSI backcard and connector

# *XCP-955*
# *8800303674*

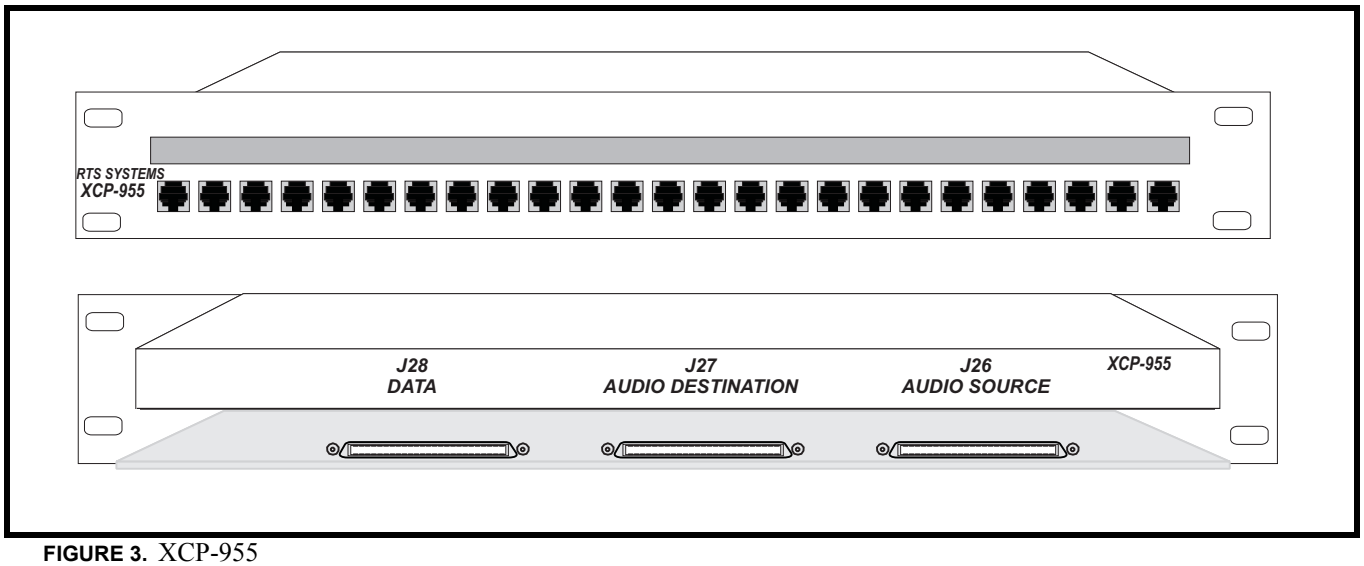


**FIGURE 3.** XCP-955

The XCP-955 is the 25-port RJ-11 breakout panel with Telco (25 pair) 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 - |

# *XCP-32-DB9*
# *9000-7810-000*

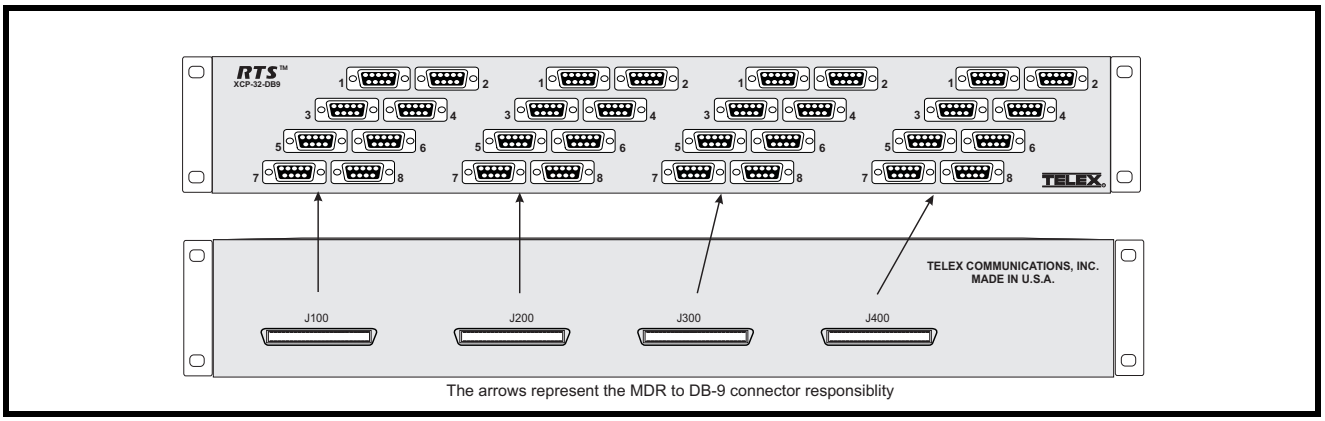


**FIGURE 4.** XCP-32 DB9

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*

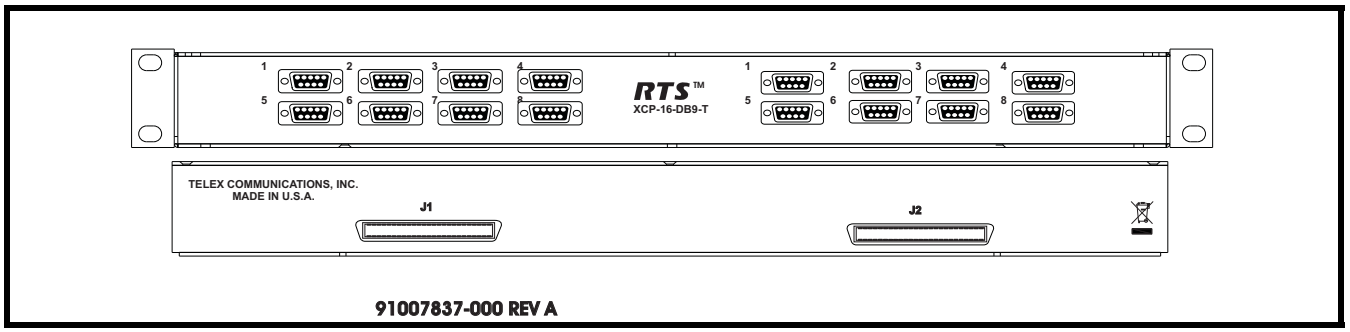


**FIGURE 5.** XCP-16-DB9-T

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 |

# *XCP-48-RJ45*
# *9000-7809-000*

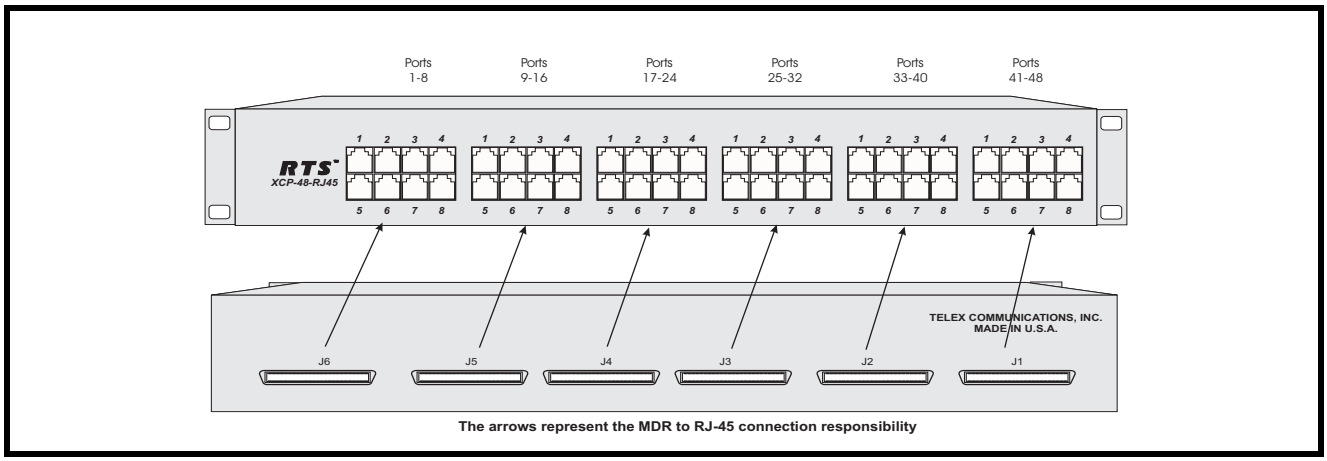


**FIGURE 6.** XCP-48-RJ45

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*

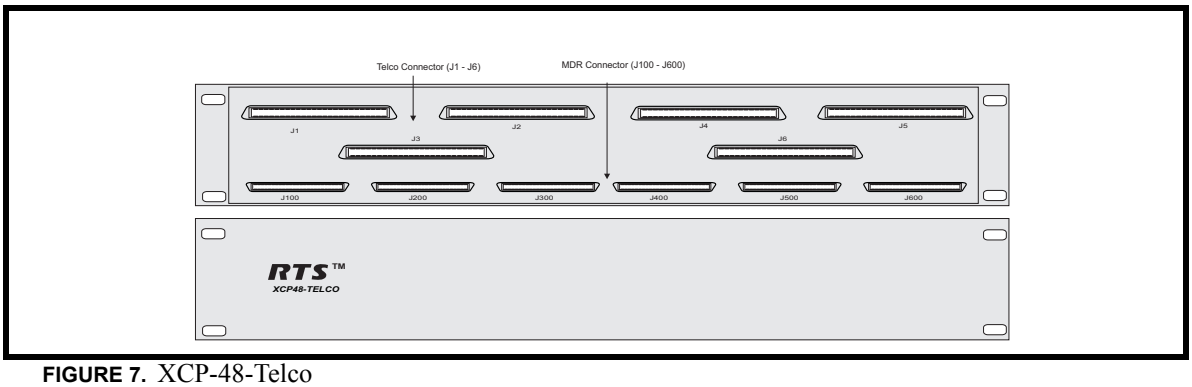


**FIGURE 7.** XCP-48-Telco

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 + |
| 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*

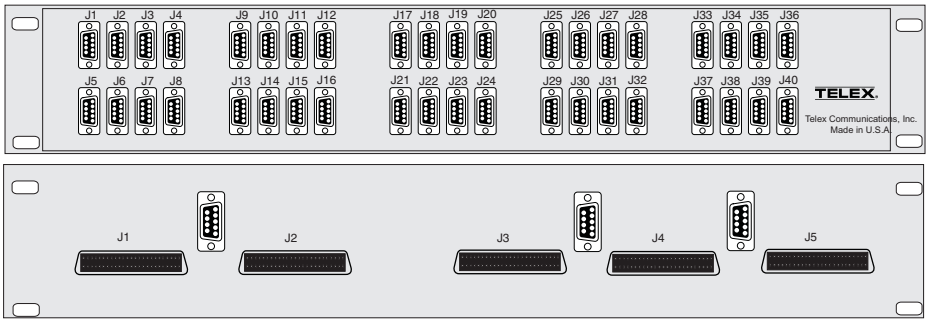


**FIGURE 8.** XCP-40-DB9

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*

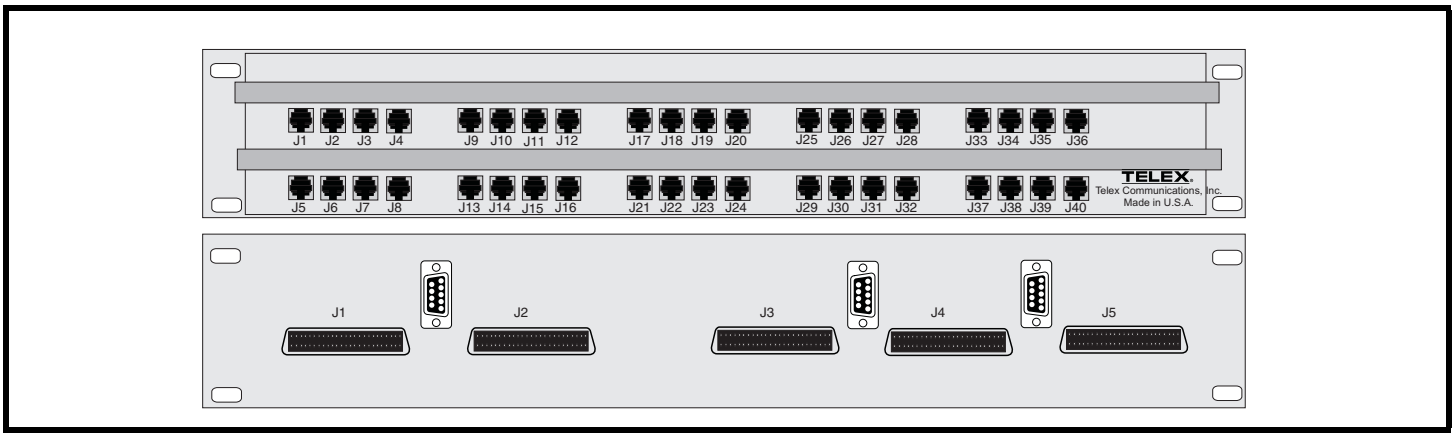


**FIGURE 9.** XCP-40-RJ11

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 - |

# *XCP-24*
# *9000-7559-000*

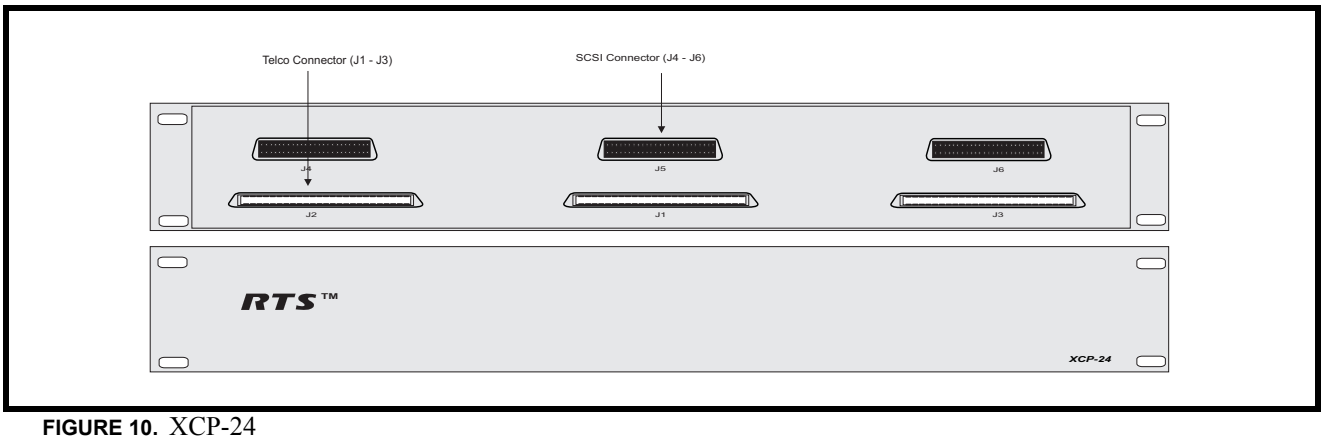


**FIGURE 10.** XCP-24

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*

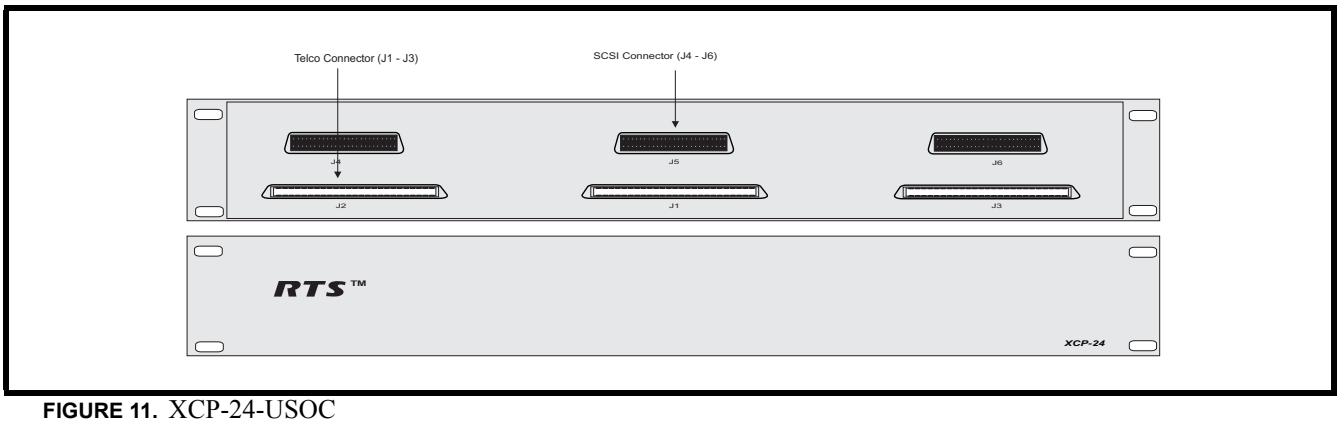


**FIGURE 11.** XCP-24-USOC

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*

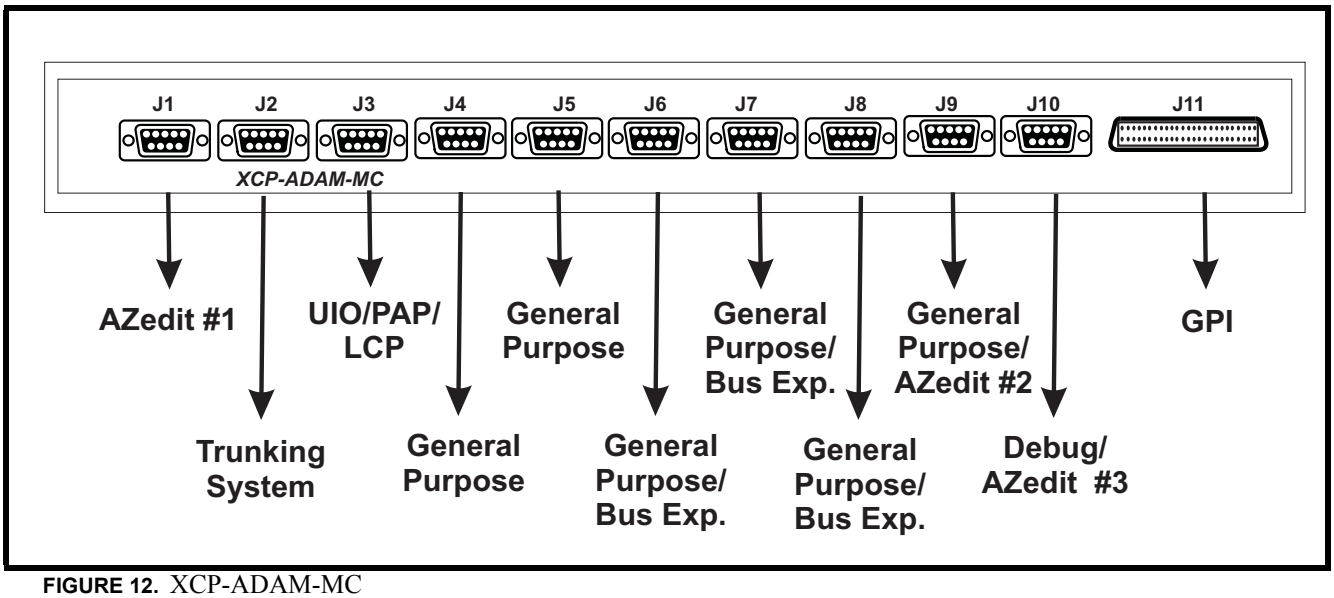


**FIGURE 12.** XCP-ADAM-MC

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- |

| 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 |

| 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 | |

| 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 |
| | 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 |