

Areca ARC LED for CI-Design Rack mount

15-4104-01A

Introduction

The unit comes with the flexibility of allowing different methods of enabling the activity and fail LED's depending on the manufacturer of the hard drive and the user's preference. This manual will inform the user on how to enable the activity and fail LED's using the three methods.

Instructions for Activity LED

There are three options for activity LED support:

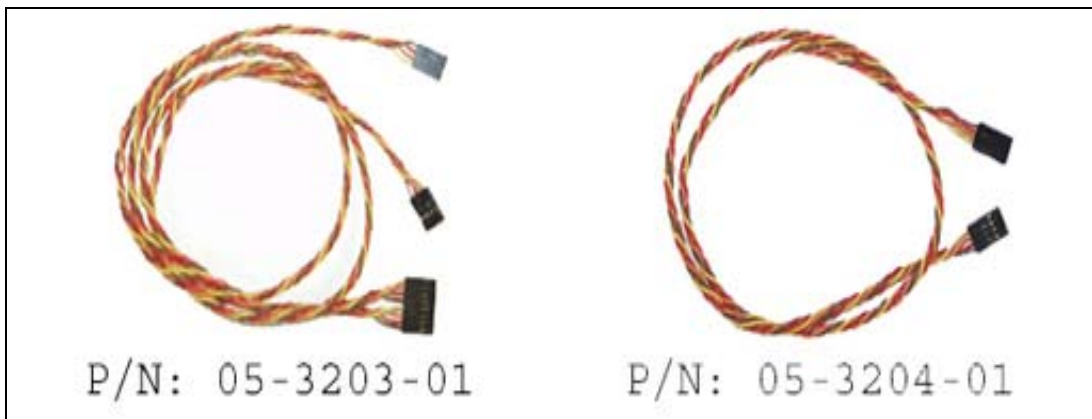
1. **Option One:** Support from the SATA controller card
 - a. Areca ARC-1110/1120/1130/1160/1170 Series (PCI-X 4/8/12/16 ports)
 - b. Areca ARC-1210/1220/1230/1260 Series (PCI-E 4/8/12/16 ports)
2. **Option Two:** Support from the SATA II Hard Disk Drives
 - a. Western Digital – All models
 - b. Maxtor – DiamondMax 10 and MaXLine III
 - c. Hitachi Deskstar – 7K500 (Kurofune-II), T7K250 (Vancouver-IV), 7K80 (Pathfinder-I)
3. **Option Three:** Support from I2C

After deciding which method applies to you, continue with the steps for installation.

Option One: SATA Controller Card

Required Materials

- LED Activity Cable (included)



Instructions

1. Turn pin 1 on SW2 to the "ON" position. SW2 is the blue piano switch.
 - a. See **Figure 1** for details on piano switch settings and cable installation.



Figure 1 – Turn pin 1 to "ON" position

2. Install the activity LED cable onto J13 of the backplane.
 - a. See **Figure 2** for installation on backplane.
 - b. The label on the connector corresponds to the port number on the controller card and backplane.

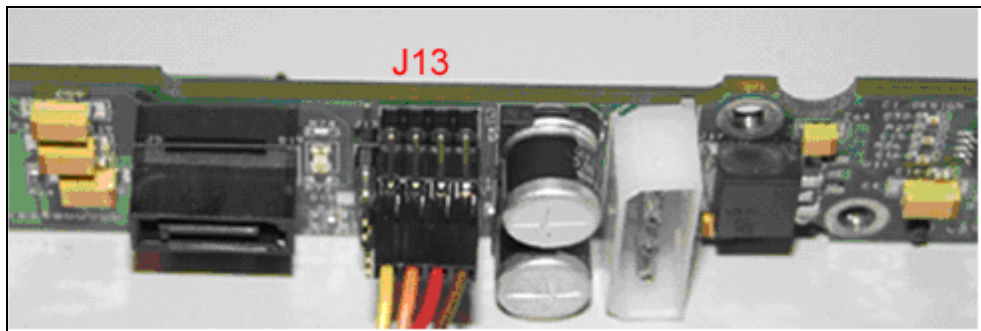


Figure 2 – Cable Installation on backplane

3. Install the activity LED cable to the SATA controller card. The even-numbered pins, located on the upper row, are 3.3V for the anode side of each LED to be connected. The odd-numbered pins are the return or cathode. Connect Yellow/Orange/Red/Brown wired to cathode side of LED signal pair.
 - a. See **Figure 3** for installation on PTP controller cards. (Polarity of LEDs for Activity headers on controller card are labeled as shown)

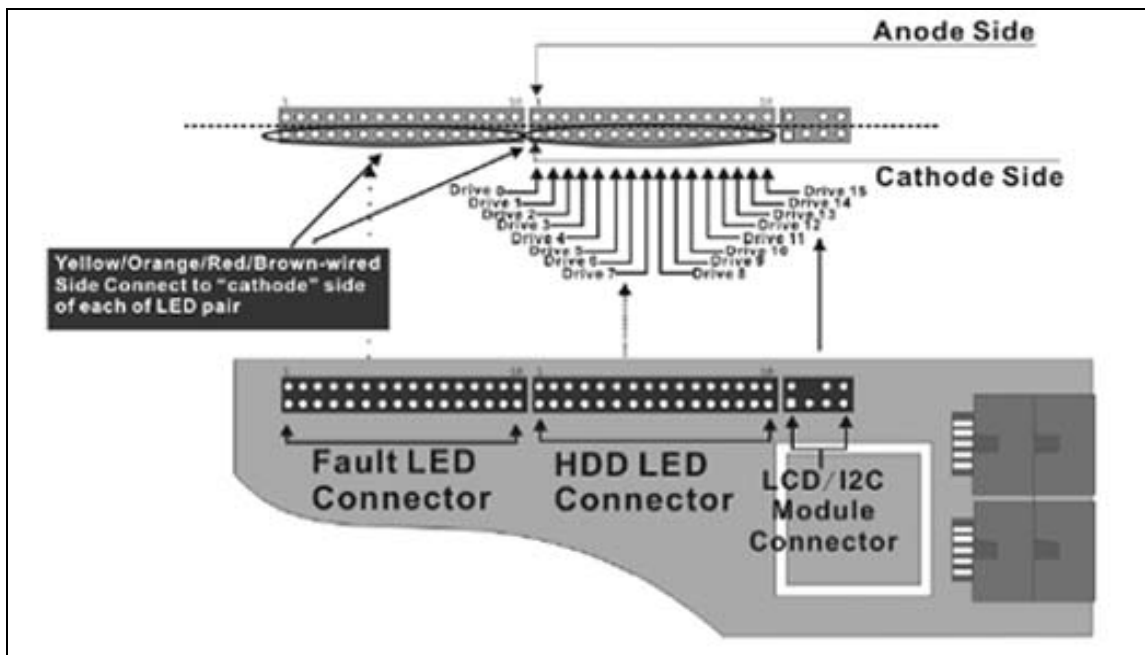
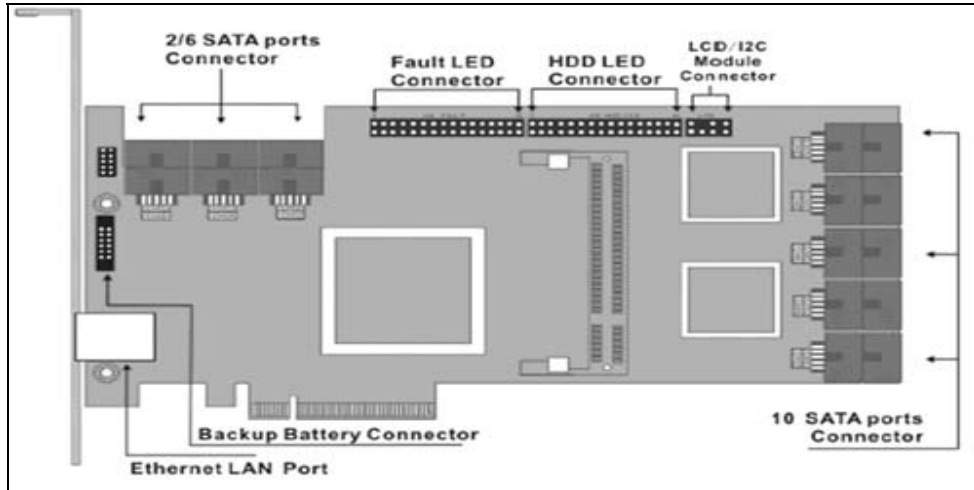


Figure 3 – Cable installation on Controller Card

Option Two: SATA Hard Disk Drive

Instructions

Turn all of the switches on SW2 to the “ON” position.

- a. See **Figure 4** for details on piano switch settings

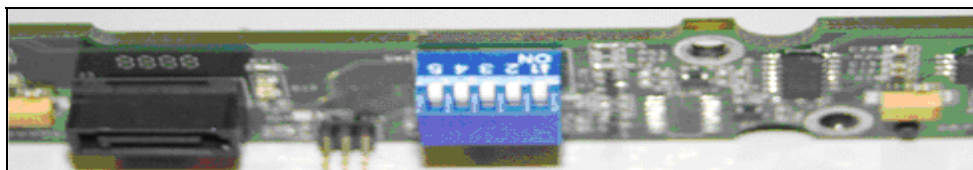


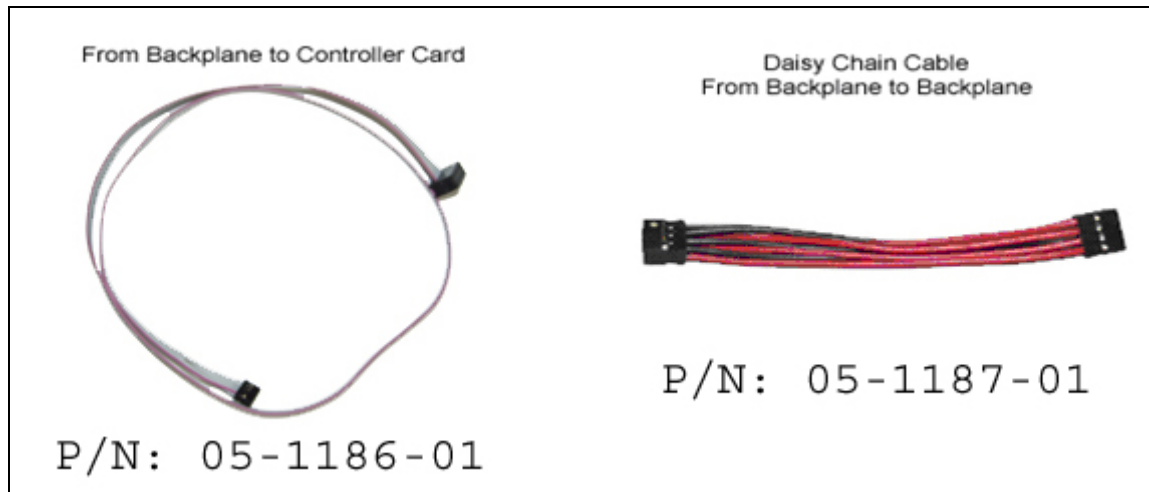
Figure 4 – Turn switches to “ON” position

Option Three: Support from I2C

Instructions

Required Materials

- I2C Cable (included)



Instructions

1. Turn pin 1 on SW2 to the "ON" position. SW2 is the blue piano switch.
 - a. See **Figure 5** for details on piano switch settings and cable installation.



Figure 5 – Turn pin 1 to "ON" position

2. Plug I2C cable into J28 of backplane
3. Plug daisy chain cable into J29 of 1 backplane and into J28 of another backplane.



NOTE

I2C allows for both Activity and Fail LED support from one cable. Please check below for fail LED settings.

Instructions for Fail LED

There are two options for fail LED support:

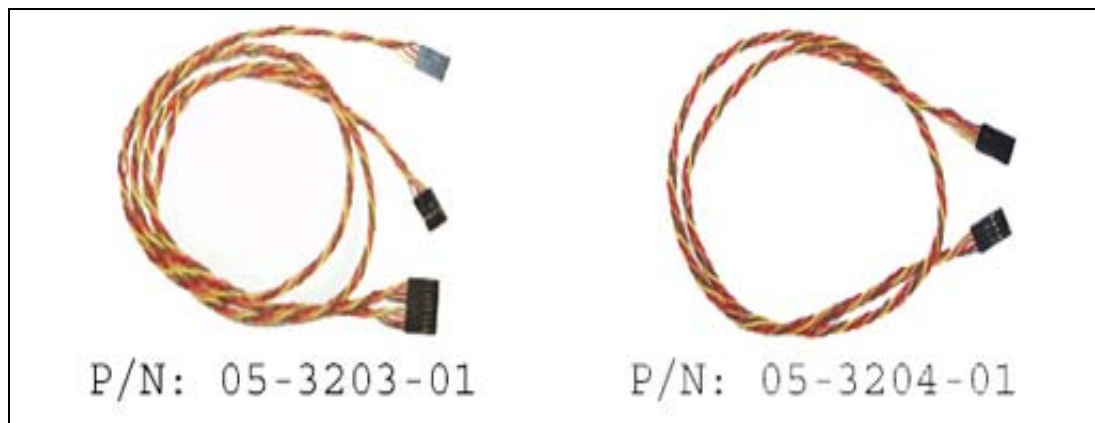
1. **Option One:** Support from the SATA controller card
 - d. Areca ARC-1110/1120/1130/1160/1170 Series (PCI-X 4/8/12/16 ports)
 - e. Areca ARC-1210/1220/1230/1260 Series (PCI-E 4/8/12/16 ports)
2. **Option Two:** Support from I2C

After deciding which method applies to you, continue with the steps for installation.

Option One: SATA Controller Card

Required Materials

- LED Fail Cable (included)



Instructions

1. Install shunt onto pins 9 and 10 of J9.
 - a. See **Figure 6** for details on how to install shunt.

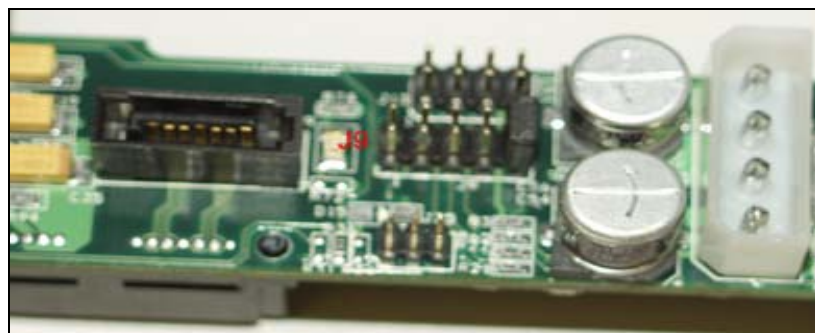


Figure 6 – Installing shunt.

2. Install the fail LED cable onto J9 of the backplane.

- b. See **Figure 7** for installation on backplane.
- c. The label on the connector corresponds to the port number on the controller card and backplane.

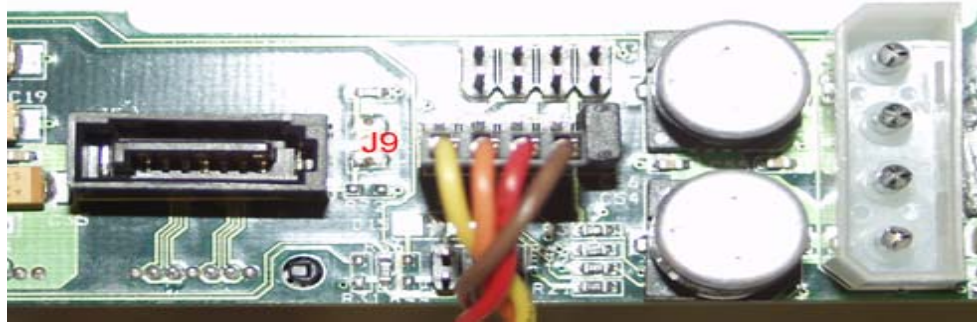
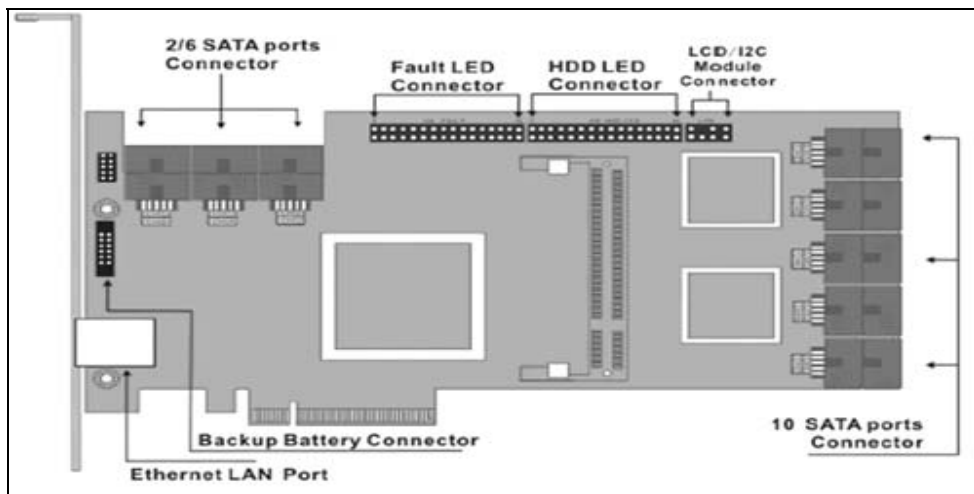


Figure 7 – Cable Installation on backplane

- 3. Install the fail LED cable to the SATA controller card. The even-numbered pins, located on the upper row, are 3.3V for the anode side of each LED to be connected. The odd-numbered pins are the return or cathode. Connect Yellow/Orange/Red/Brown wired to cathode side of LED signal pair.
 - d. See **Figure 8** for installation on PTP controller cards. (Polarity of LEDs for Fail headers on controller card are labeled as shown)



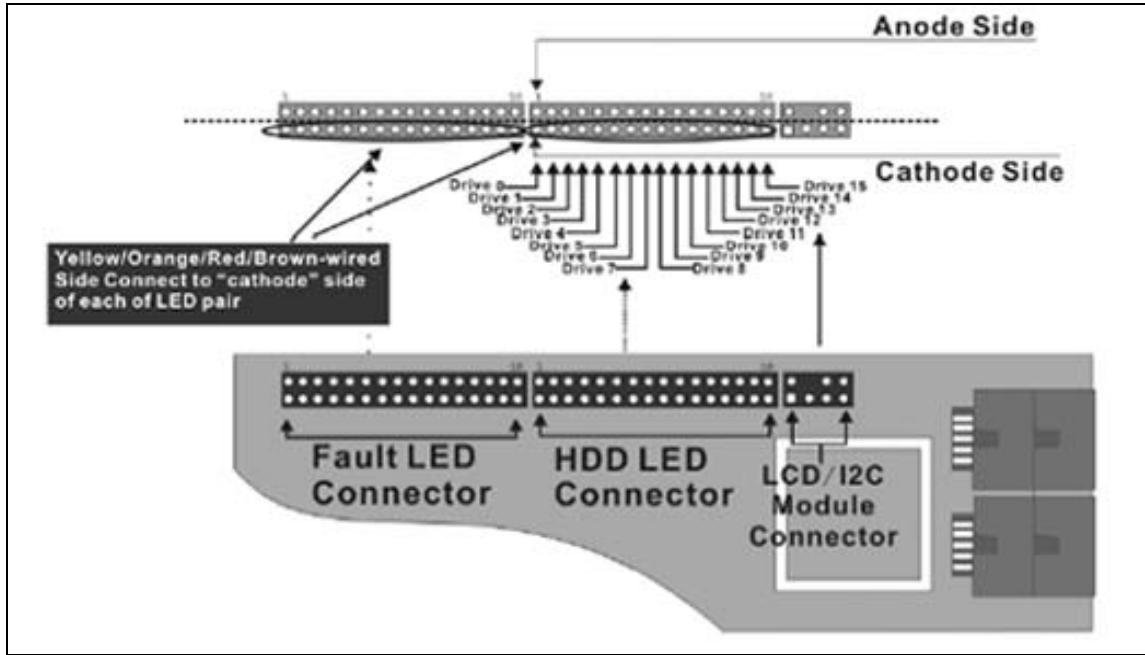


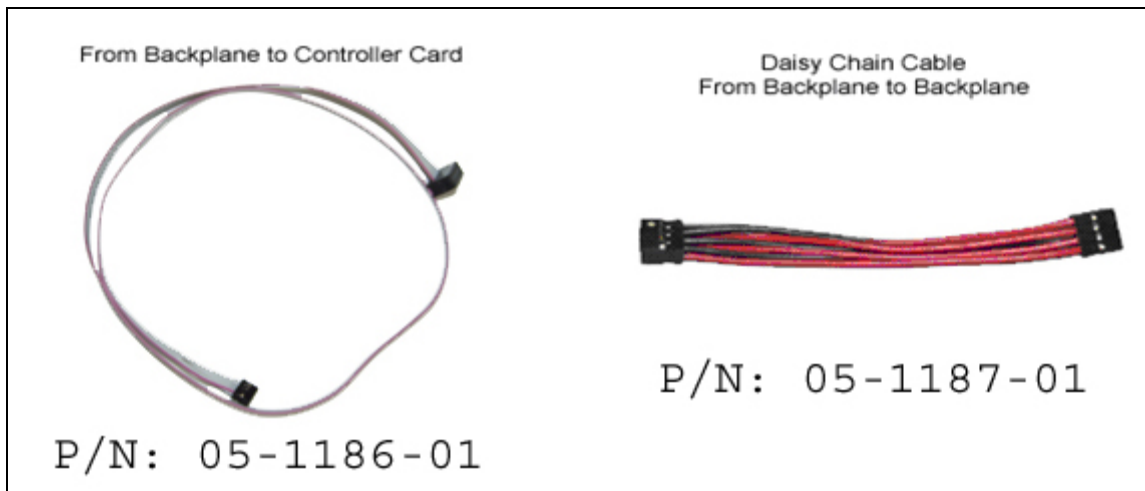
Figure 8 – Cable installation on Controller Card

Option Two: Support from I2C

Instructions

Required Materials

- I2C Cable (included)



Instructions

1. Install shunt onto pins 9 and 10 of J9.
 - a. See **Figure 9** for details on how to install shunt.

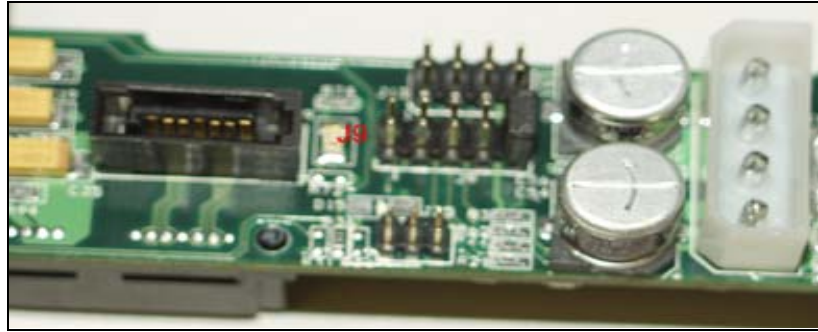


Figure 9 – Installing shunt.

2. Plug I2C cable into J28 of backplane
3. Plug daisy chain cable into J29 of 1 backplane and into J28 of another backplane.



NOTE

I2C allows for both Activity and Fail LED support from one cable. Please check above for activity LED settings.