

# Areca PCI SATA II RAID Activity LED for Supermicro Rackmount

## Introduction

This manual will inform users of how to enable the activity LED's using the controller activity LED in the Supermicro Rackmount.

## Instructions

Activity LEDs Support from the Areca SATA controller card :

- a. Areca 1110/1120/1130/1160 Series (PCI-X 4/8/12/16 Ports)
- b. Areca 1210/1220/1230/1260 series (PCI-Express 4/8/12/16 Ports)

## Required Material

LED Activity Cable

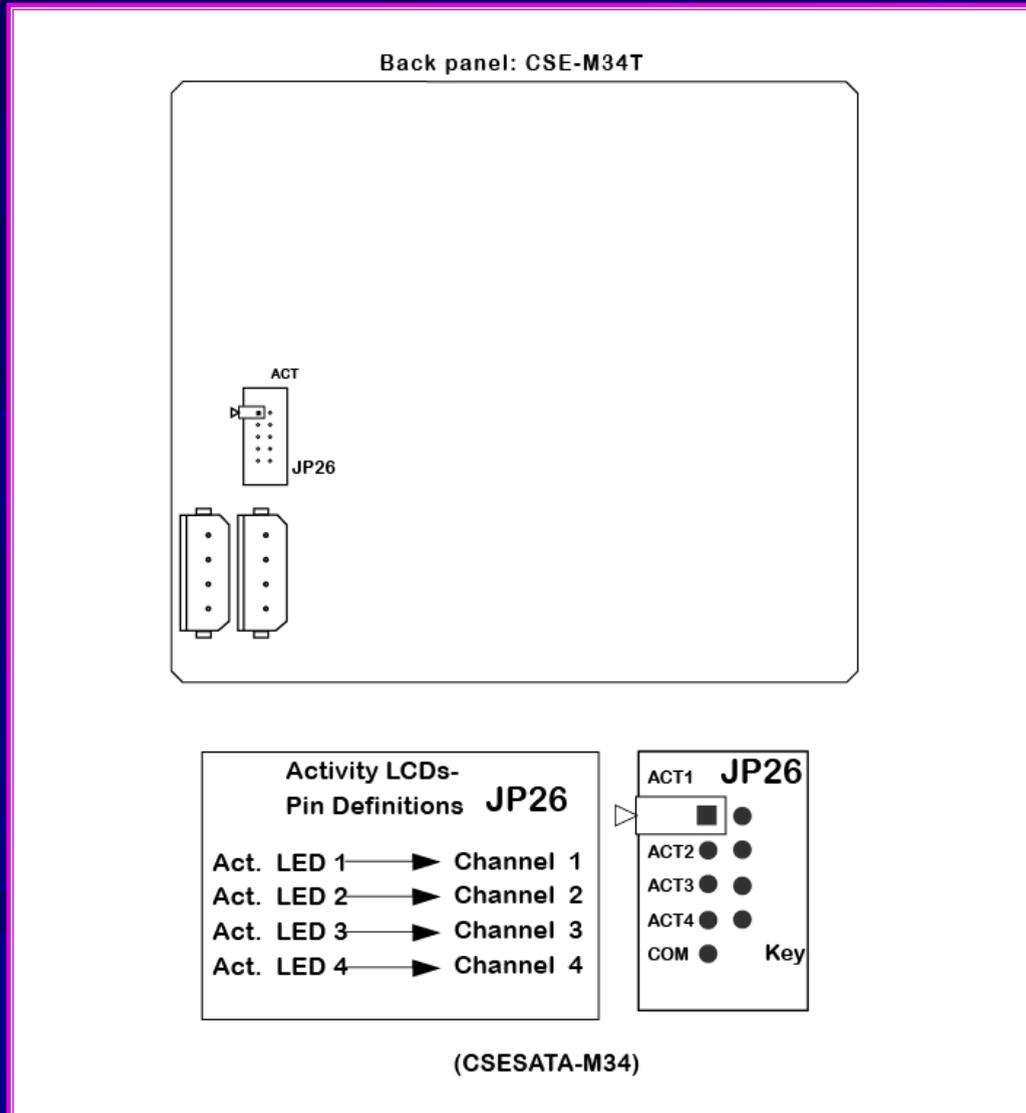
## Instructions

Install the Areca activity LED cable to the Supermicro Rackmount backplane(s). Areca has provided two kinds of LED cable for Fault/Activity.

- a. One cable (18-95040277) is required for 4 ports Rackmount backplane.
- b. The other cable (18-95080065) is 8 pins split with 4 pins LED cable. One cable (18-95080065) is required for 8 ports Rackmount backplane.

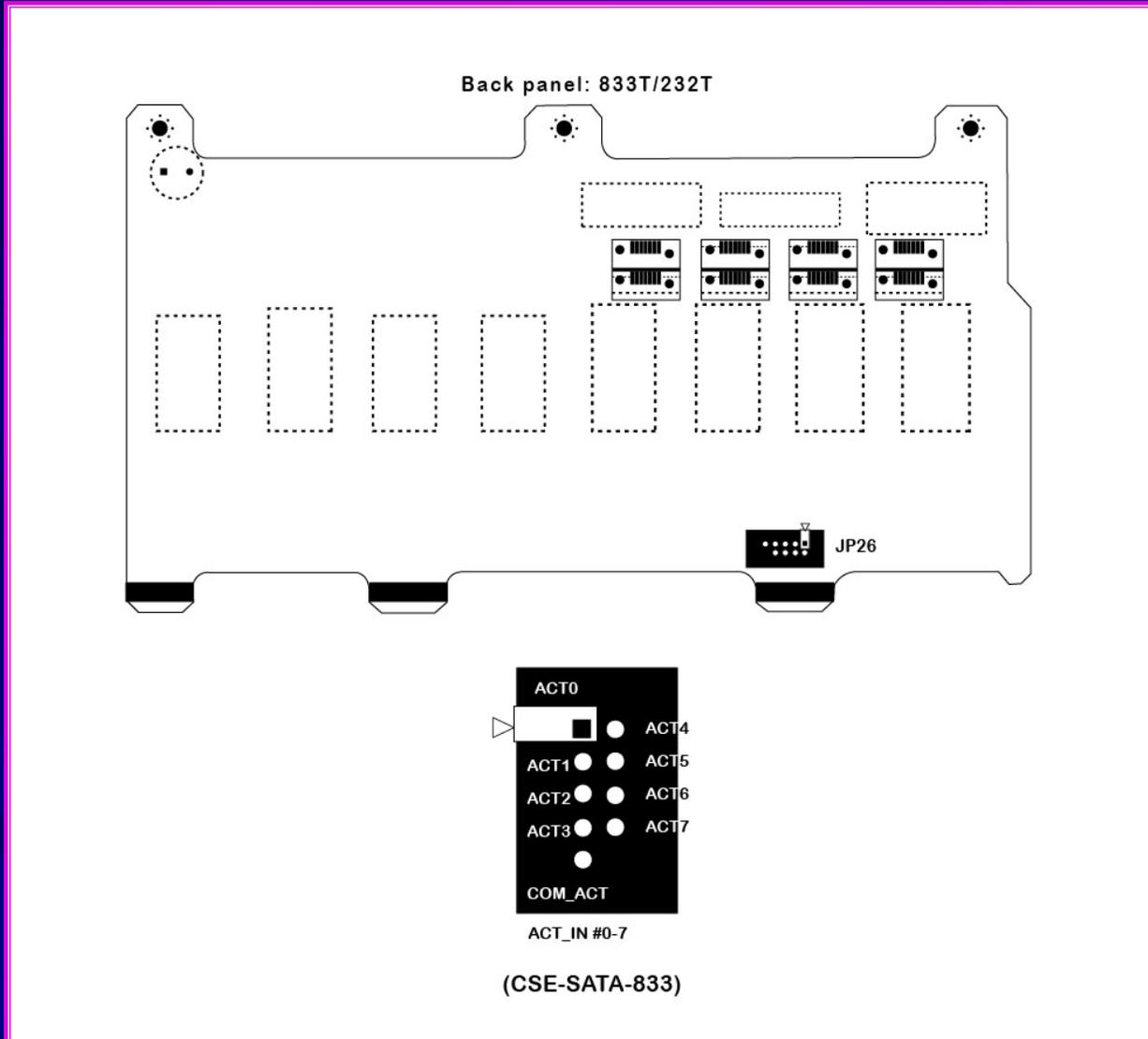
# Cable connection for SATA P-T-P enclosure backplane (J26&J47)

The ACT LED pins of the CSE-M34T J26 connectors are the Cathode side of each LED to be connected.



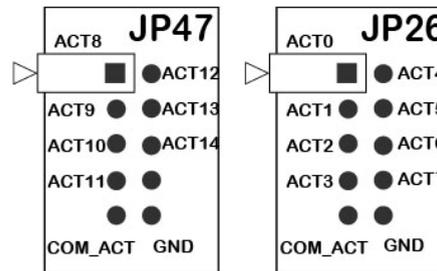
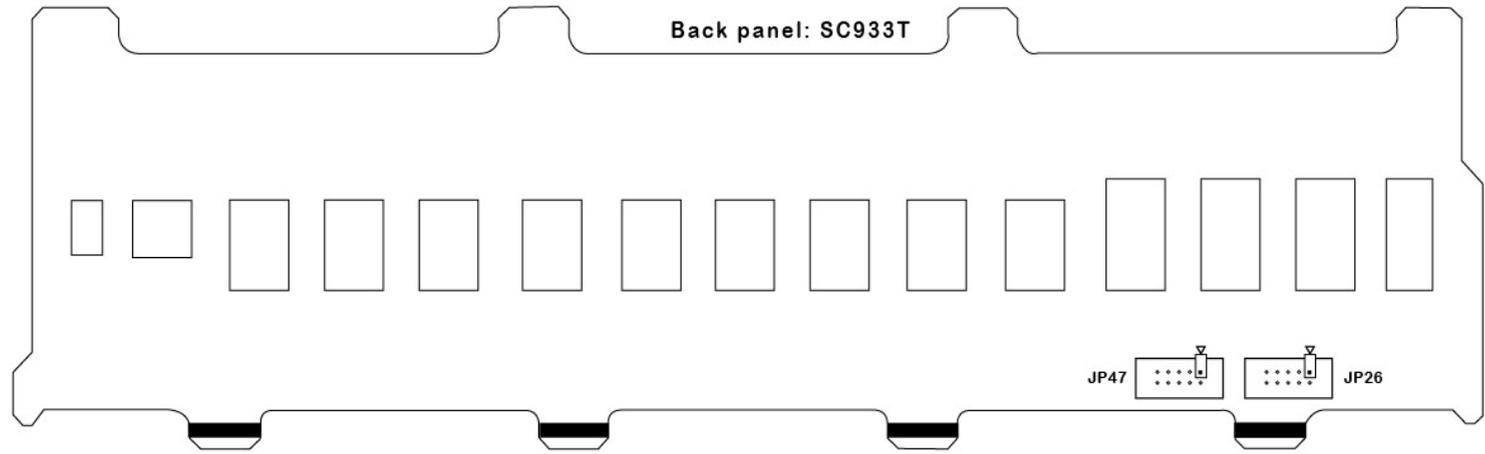
# Cable connection for SATA P-T-P enclosure backplane (J26&J47)

The ACT LED pins of the 833T/832TJ26 connector are the Cathode side of each LED to be connected.



# Cable connection for SATA P-T-P enclosure backplane (J26&J47)

The ACT LED pins of the SC933T J26&J47 connectors are the Cathode side of each LED to be connected.



ACT\_IN #8-14

ACT\_IN #0-7

(CSE-SATA-933)

## Cable connection for SATA P-T-P enclosure backplane (J26&J47)

### Cable connection:

- a. Areca supported cable: connect your 2.54mm 4-pin connector to the ACT LED pin numbers on J26&J47, and please note the pins definition below:



(18-95040277)

### Connector for Backplane



### Connector for RAID Controller

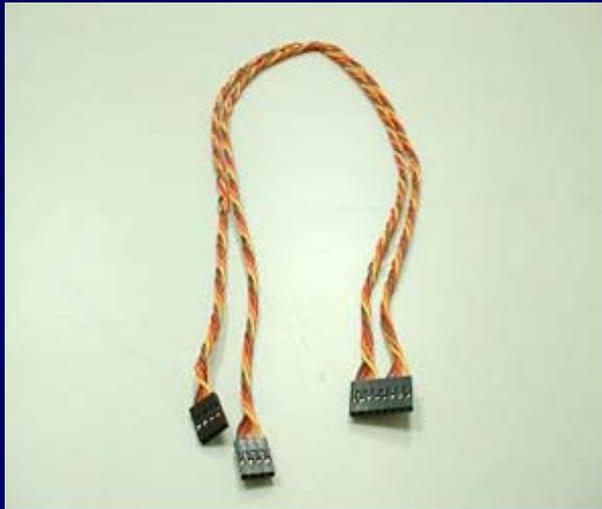


Pin # ACT0 (or 4, or 8, or 12) on BP - Drive0 (or 4, or 8, or 12) on Controller: Yellow  
Pin # ACT1 (or 5, or 9, or 13) on BP - Drive1 (or 5, or 9, or 13) on Controller: Orange  
Pin # ACT2 (or 6, or 10, or 14) on BP - Drive2 (or 6, or 10, or 14) on Controller: Red  
Pin # ACT3 (or 7, or 11) on BP - Drive3 (or 7, or 11) on Controller: Brown

# Cable connection for SATA P-T-P enclosure backplane (J26&J47)

## Cable connection:

- b. Areca supported cable: connect your 2.54mm 4-pin connector to the ACT LED pin numbers on J26&J47, and please note the pins definition below:



(18-95080065)

## Connector for Backplane



## Connector for RAID Controller



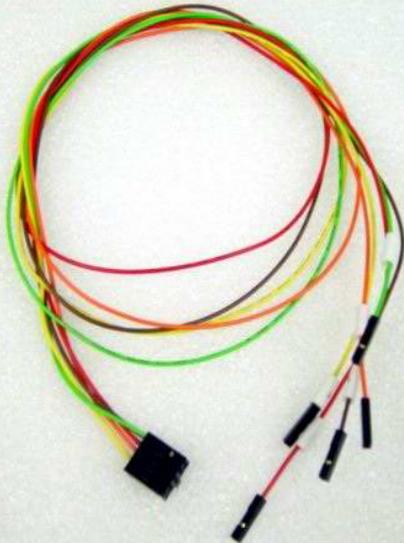
Pin # ACT0 (or 8) on BP - Drive0 (or 8) on Controller: Yellow  
Pin # ACT1 (or 9) on BP - Drive1 (or 9) on Controller: Orange  
Pin # ACT2 (or 10) on BP - Drive2 (or 10) on Controller: Red  
Pin # ACT3 (or 11) on BP - Drive3 (or 11) on Controller: Brown  
Pin # ACT4 (or 12) on BP - Drive4 (or 12) on Controller: Yellow  
Pin # ACT5 (or 13) on BP - Drive5 (or 13) on Controller: Orange  
Pin # ACT6 (or 14) on BP - Drive6 (or 14) on Controller: Red  
Pin # ACT7 on BP - Drive7 on Controller: Brown

## Cable connection for SATA P-T-P enclosure backplane (J26&J47)

### Cable connection:

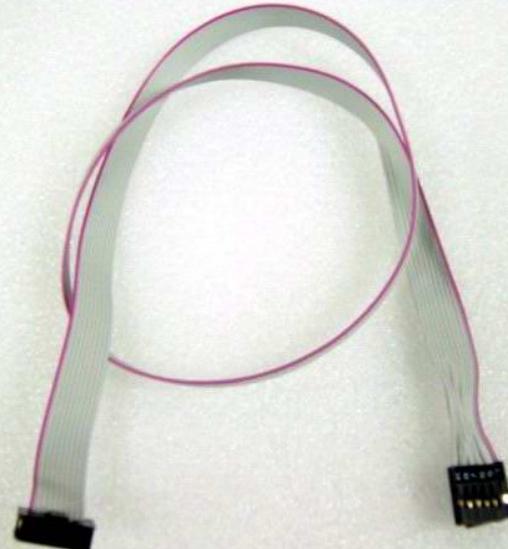
- c. Supermicro supported cable: connect your 2.54mm 4-pin connector to the ACT LED pin numbers on J26&J47, and please note the pins definition below:

CBL-0057 Split SATA LED cable, 26"



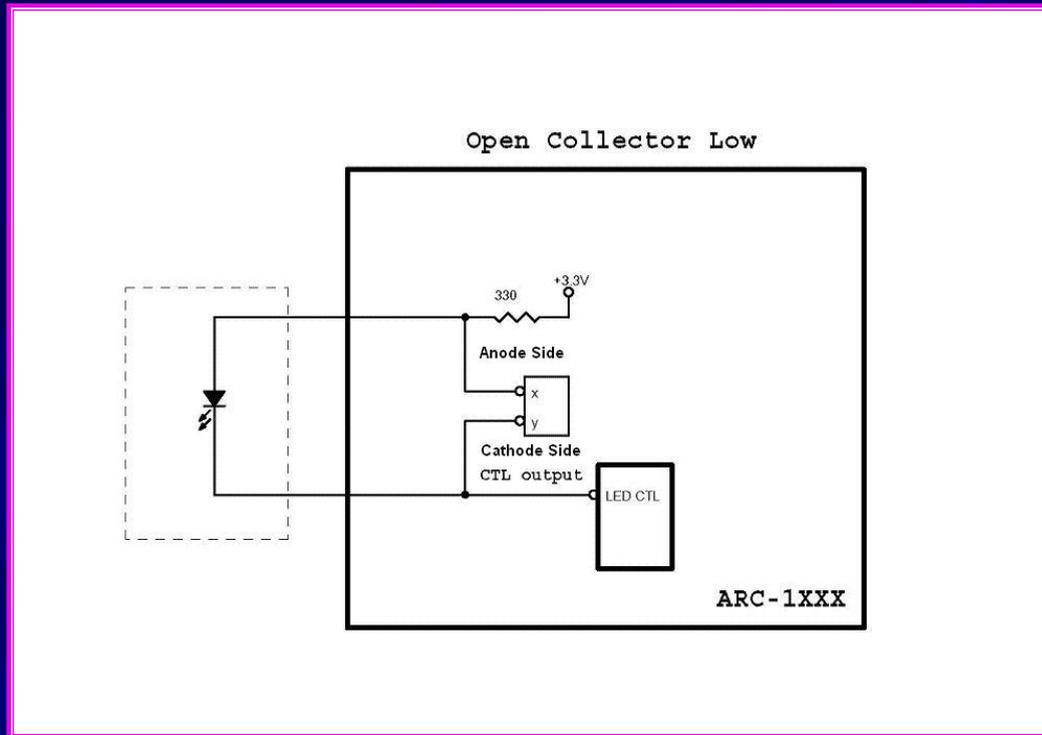
This cable only can use in CSE-M34T with Areca SATA II RAID Adapter activity LED connector

CBL-0056 Ribbon SATA LED cable, 18"



This cable can not use with Areca SATA II RAID Adapter Activity LED connector unless cut off the GND and COM\_ACT pin in the controller side

# ARC-1XXX (4/8/12/16) Series Activity LED Header Electronics Schematic



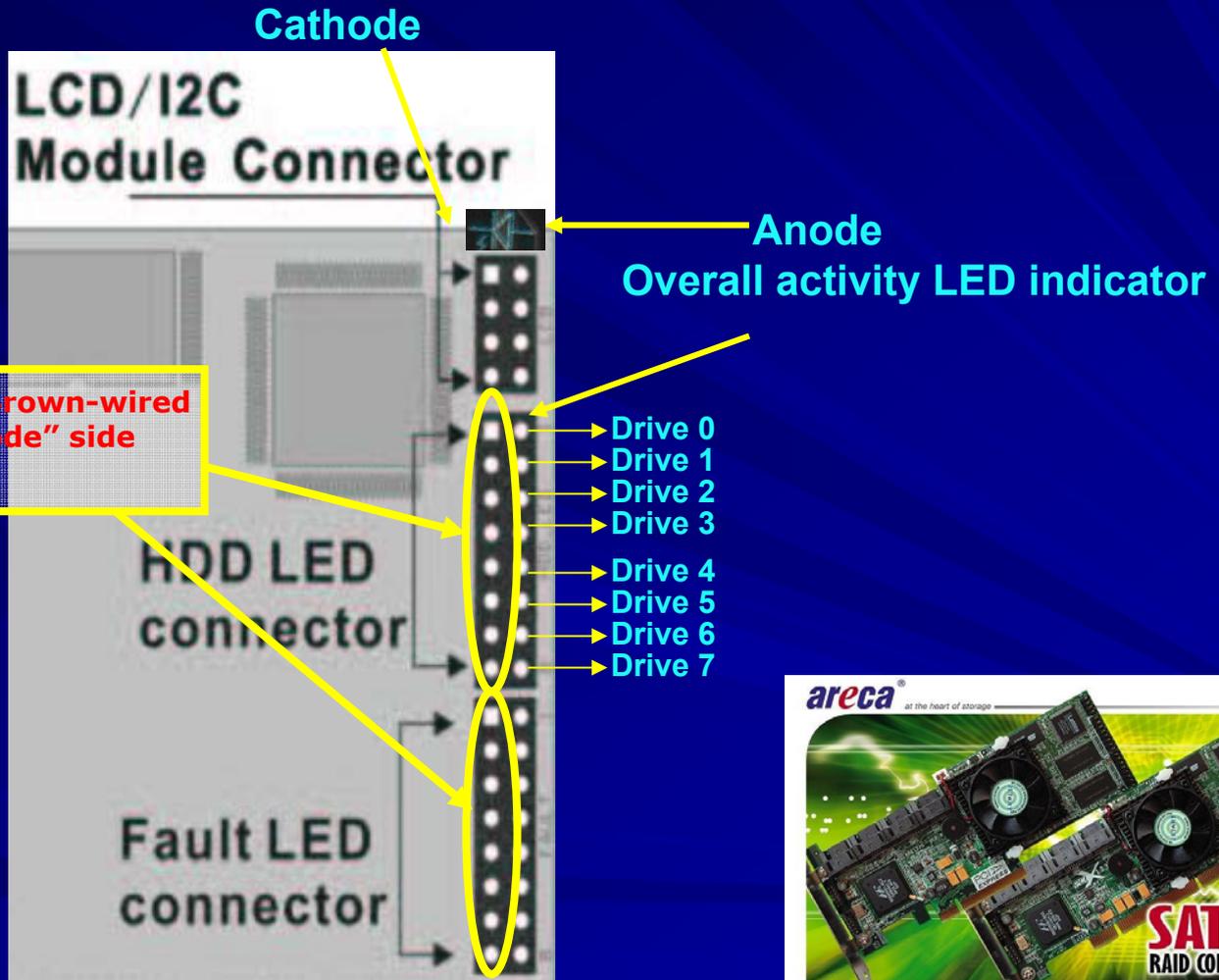
## HDD LED (Activity) connectors:

- ARC-1110/1120/1210/1220: J1
- ARC-1130/1160/1230/1260: J5

## Connector details:

- J1: drive 0, 1, 2, 3, 4, 5, 6, 7
- J5: drive 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.

The anode pins are 3.3V for the anode side of each LED to be connected.  
The cathode pins are the return or cathode. Connect Yellow/Orange/Red/Brown-wired to cathode side of LED signal pair (Polarity of LEDs for Activity headers on controller card are labeled as shown in the figure below).



**ARC-1110/1210/1120/1220**

The anode pins are 3.3V for the anode side of each LED to be connected. The cathode pins are the return or cathode. Connect Yellow/Orange/Red/Brown-wired to cathode side of LED signal pair (Polarity of LEDs for Activity headers on controller card are labeled as shown in the figure below).

