

A33606-PCI-01

Quick Installation Guide



INSTALLING THE EXPANDER CARD

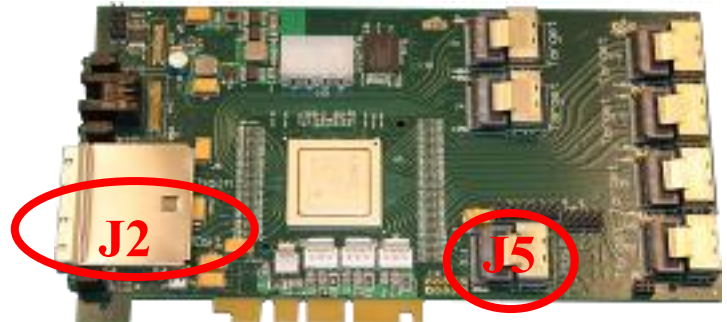
- Step 1. Ground yourself before removing any electronic equipment or parts.
- Step 2. Remove the A33606-PCI from the ESD packaging and check that it is not damaged.
- Step 3. Insert the Expander card into a PCIe or PCI slot on the motherboard per the Motherboard manufacturer recommendations.
- Step 4. Attach a 4-pin power cable from the power supply to J13 (shown below).



- Step 5. Attach the SAS HBA or RAID Card to the expander card.

For internal connection, connect the host to J5 using an SFF-8087 cable.

For external connection, connect the host to J2 using an SFF-8088 cable.



- Step 6. Attach drives to the expander card. The mapping of drive number to connector is shown below.

Connector	Drive Numbers
J3	1-4
J4	5-8
J6	9-12
J7	13-16
J8	17-20
J9	21-24

Drives can be attached via a backplane by using an SFF-8087 cable.

Drives may also be attached using an SFF-8087 to SATA fanout cable.

- Step 7. Power on the system.
- Step 8. No special drivers are required. The expander will be recognized by the HBA/RAID card and be ready for use.
- Step 9. Verify the heartbeat LED blinks.

COOLING / FANS

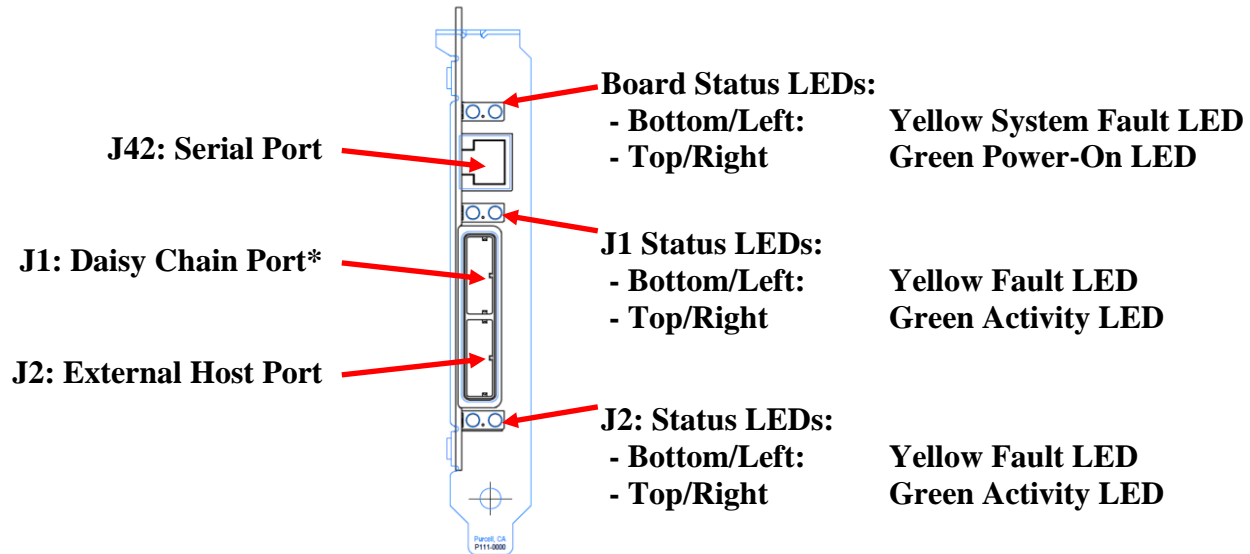
The expander chip on A33606-PCI-01 is cooled via a heatsink and fan. **WARNING: Do not remove or disable the cooling system or physical damage to the board may occur.**

The A33606-PCI-01 supports adding up to 3 additional 3-wire or 4-wire fans with pinout as noted below:

Pin	Signal Name
1	Ground
2	+12VDC
3	Tachometer
4	PWM / Speed Control

FRONT PANEL

The front panel of the A33606-PCI-01 contains two SAS ports, LEDs, and a serial port.



* The Daisy Chain port is used for connecting multiple expander cards together. Refer to the User Manual for details.

ENCLOSURE SERVICES

The A33606-PCI-01 contains enclosure services that are running on the expander chip. When connected to a RAID card, the status of the A33606-PCI-01 card can be monitored through the RAID card software. See the manufacturer documentation for the RAID card that is being utilized with the A33606-PCI-01.

The A33606-PCI-01 comes pre-configured with the following enclosure services.

- Temperature sensors that monitor chip temperature and board temperature.
- Voltage monitors for on-board voltages.
- Fan monitoring and control.
- Slot mapping for 24 drives as numbered above.
- Enclosure naming.

Header J34 can be utilized for additional enclosure services options such as power supply monitoring, LED output, etc. Contact Astek with details on your specific needs.

COMPATIBILITY

The A33606-PCI-01 has been verified to operate with the following HBA and RAID cards.

- LSI 1068-based HBA cards (3G)
- LSI 2008-based HBA cards (6G)
- LSI 1078-based RAID cards (3G)
- LSI 2108-based RAID cards (6G)
- 3ware 9750 RAID cards
- Adaptec 3805 and 3085 RAID cards
- Adaptec 51245 RAID card



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