



## VSC7155 Release Note

Model: XJ-SA12-005  
Provide By: DQA  
Release Date: Mar 11th, 2008  
Firmware Version: 3.04C

### Worldwide Technical Support and Product Information

[WWW.AICIPC.COM](http://WWW.AICIPC.COM)

### Worldwide Offices

New Jersey Office : 973-884-8886 / Email : [syao@aicipc.com](mailto:syao@aicipc.com)

Japan Office : 81-43-202-8380 / Email : [japansales@twinipc.com](mailto:japansales@twinipc.com)

Europe Office : 31-30-638-6789 /Email : [hc@aicipc.com](mailto:hc@aicipc.com)

### AIC Headquarter

17970 E. Ajax Circle City of Industry, CA 91748

Tel : 626-581-4300

### T-WIN Taiwan Headquarter

No.9, Alley 19, Lane 20, Ta Hsing Rd. Luchu Shiang, Taoyuan Hsien,  
Taiwan, R.O.C.

Tel:+886-3-3138386



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May28<sup>th</sup>-2007

Version 3.04a(Alfa) FW for AIC 5/10D Tower Expander

**Major improvements:**

1. LM80 temperature sensor support:

- a. When the temperature is up to 45°C the enclosure buzzer beeps and temp fail LED is light.
- b. When the temperature is up to 55°C the enclosure buzzer beeps and temp fail LED is light.
- c. SES support of temperature sensor element

2. Fan support

a. Fan error support

When fan error detected, the enclosure buzzer beeps and fan fail LED is light.

b. Fan speed control by temperature

SES Status	LOWEST	SECLOWEST	SPEED3	SPEED4	SPEED5	INTERMEDIATE	HIGHEST
Temp(°C).	T < 25	25 <= T < 35	NA	NA	NA	35 <= T < 40	T >= 40
Fan Speed Stage	Stage 3	Stage 2	NA	NA	NA	Stage 1	Stage 0

P.S. Fan Speed Stage 0: the highest speed; Fan Speed Stage 3: the lowest speed

- c. 5 D/10D FAN number auto detecting.
- d. SES support of cooling element.

3. Alarm support

- a. Beeping when the system boots up.
- b. SES support of alarm element

4. Full SES support of disk (insertion/removal, flashing of presence/fault LED).

- a. SES support of array device element
- b. An example of indicators behavior for Adaptec 4805
  - (i). One HD fail: fail LED flash (fast)
  - (ii). One HD Device fails in a array: the fail LEDs of All members are flash (slow); That fail LED of the fail HD device is flash (fast)
  - (iii). Rebuild: The fail LEDs of all members are flash (slow)
  - (iv). Blink: when the HD device is assigned, the fail led is blink.

5. Dual Bank FW

Select by boot loader. When expander is booting up, can press 'T' or 't' to swap the different firmware.



**Note:**

FW filename:

*EM7155-AIC-5\_10D-Tower-3.04a.fuf: for update.*

*EM7155-AIC-5\_10D-Tower-3.04a-Mfg.bin (include boot loader 3.00) for production*

**June 22<sup>th</sup>-2007**

Version 3.04a(Alfa) FW for AIC 5/10D Tower Expander

Define Model Name: EJ55-AIC-T5\_10D-A0-3.04a

**Major improvements:**

1. Define model name “EJ55-AIC-T5\_10D-A0-3.04a”

2. Confirm console command as below

tbuzzer                      Make sure the Buzzer Beeping

tIm80                         Make sure the Im80 works well.

ttemp                         Temperature Simulation.

tverified                     Verify the operability of all leds in the system.

tbistloopback                Verify the quality for each Phy.

tBISTLoopback [Rate] [Pattern] [PHY\_range1]

3. Add boot loader function manual.

Please survey the VITESSE Recovery boot loader operation manual (ZH).

**Note:**

1. After 3.04, the S3R format is canceled.

2. FW filename:

*EJ55-AIC-5\_10D-A0-3.04a.fuf: for update. (console command : fwburn uart0)*

*EJ55-AIC-5\_10D-A0-3.04a-Mfg.bin (include boot loader 3.00) for production*

**July 3<sup>th</sup>-2007**

Version 3.04A    FW for AIC 5/10D Tower Expander

Define Model Name: EJ55-AIC-T5\_10D-A0-3.04A

1. This modification was based on “[XJ-F-0009-01 for XJ-SA12-005 with 3.04a Test Report.pdf](#)”.

2. Version change, ‘a’ =>’A’.

3. Sync the firmware level and firmware version and don’t display the dot.  
(03.04A => 304A)

4. “Critical fail” can be differentiated from “Warning fail” in SES support for



temperature sensor.

5. The “Fan Speed” and “Fan Stage” were displayed by console command”showfanspeed”.

*Note:*

*FW filename:*

*EJ55-AIC-5\_10D-A0-3.04A.fuf: for update. (console command : fwburn uart0)*

*EJ55-AIC-5\_10D-A0-3.04A-Mfg.bin (include boot loader 3.00) for production*

### **July 9<sup>th</sup>-2007**

Version 3.04b FW for AIC 5/10D Tower Expander

Define Model Name: EJ55-AIC-T5\_10D-A0-3.04b

1. This modification was based on “[XJ-F-0009-01 for XJ-SA12-005 with 3.04A Test Report.pdf](#)”.
2. Version change, ‘A’ =>’b’.
3. “Warning fail” cannot return back optimal is fixed.

*Note:*

*FW filename:*

*EJ55-AIC-5\_10D-A0-3.04b.fuf: for update. (console command : fwburn uart0)*

*EJ55-AIC-5\_10D-A0-3.04b-Mfg.bin (include boot loader 3.00) for production*

### **October 4<sup>th</sup>-2007**

Version 3.04B FW for AIC 5/10D Tower Expander.

Define Model Name: EJ55-AIC-T5\_10D-A0-3.04B

1. This modification was based on “[XJ-F-0009-03 for XJ-SA12-005 with 3.04b Test Report.pdf](#)”.
2. Version change, ‘b’ =>’B’.
3. Adaptec cascade issue was fixed.
4. When event occur or change .the buzzer will beep.
5. This FW was shared by 5bay and 10bay. 5 bay’s FAN2 was not installed, so SES status will show FAN2: Not Install.
6. Behavior of Array-fail was improved for LSI 8480E HBA (1.03.60-0255)/ LSI 8344ELP HBA (1.03.60-0255).
7. Adaptec’s temperature status was fixed.



8. Adaptec's "Blink Enclosure" was implemented.
9. Blink interference was fixed.
10. Console command "ttemp" was used to simulation temperature.

*Note:*

*FW filename:*

*EJ55-AIC-5\_10D-A0-3.04B.fuf: for update. (Console command: fwburn uart0)*

*EJ55-AIC-5\_10D-A0-3.04B-Mfg.bin (Include Boot Loader 3.00 and Dual Bank FW3.04B) for production.*

**February 14<sup>th</sup>-2008**

Version 3.04c FW for AIC 5/10D Tower Expander.

Define Model Name: EJ55-AIC-T5\_10D-A0-3.04c

**Major improvements:**

1. This modification was based on ATTO Daisy-Chain issue.
2. Version change, 'B' =>'c'.
3. Support ATTO's SES RPM reporting function
4. Add Fan Speed Stage Control (tfanspeedverify) in Console Command.
5. Fan Speed Display revised

FW filename:

EJ55-AIC-5\_10D-A0-3.04c.fuf: for update. (Console command: fwburn uart0)

**February 22<sup>th</sup>-2008**

Version 3.04c01 FW for AIC 5/10D Tower Expander.

Define Model Name: EJ55-AIC-T5\_10D-A0-3.04c01

**Major improvements:**

1. This modification was based on AVID FAN Report issue.
2. Version change, 'c' =>'c01'.
3. Support SATA I non-NCQ HDDs.



4. PHY Signal Adjustment - Just Fine Tune, Non-Issue.

FW filename:

EJ55-AIC-5\_10D-A0-3.04c01.fuf: for update. (Console command: fwburn uart0)

**March 11<sup>th</sup>-2008**

Version 3.04C FW for AIC 5/10D Tower Expander.

Define Model Name: EJ55-AIC-T5\_10D-A0-3.04C

**Major improvements:**

1. Version change, 'c01' =>'C', just for Formal Release.

FW filename:

EJ55-AIC-5\_10D-A0-3.04C.fuf: for update. (Console command: fwburn uart0)

EJ55-AIC-5\_10D-A0-3.04C-Mfg.bin: (Include Boot Loader 3.00 and Dual Bank FW3.04C for production.