

## Product Change Notice

**Issue Date: 03 Dec 2010**

### **Change Type:**

Please be advised that Avago Technologies is making the following product change on the effective date noted for the products listed below:

Assembly Related Change: Change manufacturing site within the same country.

### **Parts Affected:**

The affected part number list is attached in addendum.

### **Description and Extent of Change:**

The new assembly location will have similar electrical, functionality and performance as the current facility. No change in design for all affected products.

Parts from new manufacturing site will start from 2011 datecode marked on the device.

### **Device Marking Instructions:**

#### **Marking**

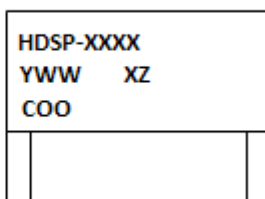
Ink Color = Black

YWW = Date Code (Year/Workweek)

X = IV Category

Z = Color Bin

COO = Country of Origin



### **Reasons for Change:**

Discontinuance of current assembly manufacturing site

### **Effect of Change on Fit, Form, Function, Quality, or Reliability:**

There is no change to the fit, form, and function. The product has been qualified through Avago Technologies stringent qualification procedures. Reliability assessment showed no functional defects observed in the test run.

**Effective Date of Change:**

Effective from 04 March 2011, shipments will be from the new manufacturing sites. During this period, Avago will continue to ship finish good from current manufacturing site. There may be mix shipments between current site and new site.

**Qualification Data:**

The reliability qualification data is as shown in Table A.

**Table A: Reliability Test Result:**

HDSP-U103, HDSP-U413, HDSP-K111, HDSP-N150, HDSP-8603

| Environmental/Life Test         | Reference   | Stress Profile                           | Unites Tested | Units Failed |
|---------------------------------|-------------|------------------------------------------|---------------|--------------|
| Temperature Cycling             | Avago Std   | -55/100°C 15/5min Dwell/Transfer, 100cyc | 366 x 5       | 0            |
| High Temperature Operating Life | JESD22-A108 | 55°C, Max Derated Current, 336hrs        | 66 x 5        | 0            |
| Solder Heat Resistance          | JESD22-B106 | 260°C for 10s, 2x                        | 30 x 5        | 0            |

HDSP-4850, HDSP-2500, HDSP-2350

| Environmental/Life Test         | Reference   | Stress Profile                          | Unites Tested | Units Failed |
|---------------------------------|-------------|-----------------------------------------|---------------|--------------|
| Temperature Cycling             | Avago Std   | -40/85°C 15/5min Dwell/Transfer, 100cyc | 366 x 5       | 0            |
| High Temperature Operating Life | JESD22-A108 | 55°C, Max Derated Current, 336hrs       | 66 x 5        | 0            |
| Solder Heat Resistance          | JESD22-B106 | 260°C for 10s, 2x                       | 30 x 5        | 0            |

**Summary:** All the qualification vehicles submitted to reliability tests passed Avago's stringent reliability tests requirements. There were no functional defects observed in the tests run above.

---

These changes have been reviewed and approved by Avago Technologies engineers and managers per Avago Technologies procedure: Change Control and Customer Notification, A-5962-6052-80.

Please contact your Avago Technologies field sales engineer or Contact Center (<http://www.avagotech.com/contact/>) for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.

## Addendum

### Affected Part Number List

|                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| HDSP-4830       | HDSP-315G       | HDSP-7511       | HDSP-F511-IJC00 |
| HDSP-4830-GH000 | HDSP-315H       | HDSP-7511-CD000 | HDSP-F513       |
| HDSP-4830-HH000 | HDSP-315L       | HDSP-7513       | HDSP-F513-IJ000 |
| HDSP-4832       | HDSP-315Y       | HDSP-7513-CD000 | HDSP-G101       |
| HDSP-4836       | HDSP-316E       | HDSP-7517       | HDSP-G103       |
| HDSP-4840       | HDSP-316G       | HDSP-7801       | HDSP-G111       |
| HDSP-4840-FG000 | HDSP-316H       | HDSP-7801-JK000 | HDSP-G113       |
| HDSP-4840-FGB00 | HDSP-316L       | HDSP-7801-KK000 | HDSP-G201       |
| HDSP-4850       | HDSP-316Y       | HDSP-7802       | HDSP-G201-EF000 |
| HDSP-4850-HI000 | HDSP-316Y-KMP00 | HDSP-7802-JK000 | HDSP-G203       |
| HDSP-4850-HIC00 | HDSP-3351       | HDSP-7803       | HDSP-G211       |
| HLCP-A100       | HDSP-3353       | HDSP-7803-JK000 | HDSP-G213       |
| HLCP-A100-BC000 | HDSP-3356       | HDSP-7803-JKC00 | HDSP-G501       |
| HLCP-B100       | HDSP-3600       | HDSP-7804       | HDSP-G503       |
| HLCP-B100-BC000 | HDSP-3601       | HDSP-7807       | HDSP-G511       |
| HLCP-C100       | HDSP-3603       | HDSP-7808       | HDSP-G513       |
| HLCP-D100       | HDSP-3900       | HDSP-8601       | HDSP-H101       |
| HLCP-E100       | HDSP-3901       | HDSP-8601-EF000 | HDSP-H101-CD000 |
| HLCP-E100-BC000 | HDSP-3901-EF000 | HDSP-8603       | HDSP-H101-DE000 |
| HLCP-F100       | HDSP-3903       | HDSP-8603-EF000 | HDSP-H103       |
| HLCP-G100       | HDSP-3903-EF000 | HDSP-A101       | HDSP-H103-DE000 |
| HLCP-H100       | HDSP-3905       | HDSP-A101-FG000 | HDSP-H107       |
| HLCP-H100-BC000 | HDSP-4201       | HDSP-A103       | HDSP-H108       |
| HLCP-J100       | HDSP-4203       | HDSP-A103-FG000 | HDSP-H111       |
| HLMP-2300       | HDSP-4600       | HDSP-A107       | HDSP-H111-DE000 |
| HLMP-2300-EF000 | HDSP-4601       | HDSP-A107-FG000 | HDSP-H113       |
| HLMP-2350       | HDSP-4603       | HDSP-A108       | HDSP-H151       |
| HLMP-2350-EF000 | HDSP-4603-IJ000 | HDSP-A111       | HDSP-H153       |
| HLMP-2366       | HDSP-4606       | HDSP-A113       | HDSP-H157       |
| HLMP-2400       | HDSP-4606-IJ000 | HDSP-A125       | HDSP-H158       |
| HLMP-2400-EF000 | HDSP-515E       | HDSP-A151       | HDSP-H211       |
| HLMP-2450       | HDSP-515G       | HDSP-A153       | HDSP-H211-GH000 |
| HLMP-2450-EF000 | HDSP-515H       | HDSP-A153-NO000 | HDSP-H213       |
| HLMP-2500       | HDSP-515H-GH000 | HDSP-A211       | HDSP-H213-GH000 |
| HLMP-2500-FG000 | HDSP-515L       | HDSP-A213       | HDSP-H413       |
| HLMP-2516       | HDSP-515L-FG000 | HDSP-A213-CD000 | HDSP-H413-EF000 |
| HLMP-2550       | HDSP-515Y       | HDSP-A401       | HDSP-H413-FG000 |
| HLMP-2550-FG000 | HDSP-516E       | HDSP-A403       | HDSP-H511       |
| HLMP-2598       | HDSP-516G       | HDSP-A413       | HDSP-H511-GH000 |
| HLMP-2599       | HDSP-516H       | HDSP-A511       | HDSP-H513       |
| HLMP-2600       | HDSP-516L       | HDSP-A511-JK000 | HDSP-H513-GH000 |

|                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| HLMP-2620       | HDSP-516Y       | HDSP-A513       | HDSP-K111       |
| HLMP-2620-EF000 | HDSP-516Y-KMP00 | HDSP-A801       | HDSP-K113       |
| HLMP-2635       | HDSP-5501       | HDSP-A803       | HDSP-K121       |
| HLMP-2655       | HDSP-5501-GG000 | HDSP-A807       | HDSP-K123       |
| HLMP-2655-EF000 | HDSP-5501-GH000 | HDSP-A901       | HDSP-K211       |
| HLMP-2670       | HDSP-5503       | HDSP-A903       | HDSP-K211-GH000 |
| HLMP-2685       | HDSP-5503-GG000 | HDSP-A903-GHC00 | HDSP-K213       |
| HLMP-2685-EF000 | HDSP-5503-GH000 | HDSP-A907       | HDSP-K213-GH000 |
| HLMP-2700       | HDSP-5507       | HDSP-A908       | HDSP-K511       |
| HLMP-2700-EF000 | HDSP-5507-GG000 | HDSP-E100       | HDSP-K511-GH000 |
| HLMP-2720       | HDSP-5507-GH000 | HDSP-E101       | HDSP-K513       |
| HLMP-2720-EF000 | HDSP-5508       | HDSP-E101-EF000 | HDSP-K513-GH000 |
| HLMP-2735       | HDSP-5508-GH000 | HDSP-E103       | HDSP-N101       |
| HLMP-2755       | HDSP-5521       | HDSP-E150       | HDSP-N103       |
| HLMP-2755-EF000 | HDSP-5521-GG000 | HDSP-E151       | HDSP-N103-CD000 |
| HLMP-2755-EFB00 | HDSP-5521-GH000 | HDSP-E153       | HDSP-N105       |
| HLMP-2770       | HDSP-5523       | HDSP-E156       | HDSP-N150       |
| HLMP-2785       | HDSP-5523-GH000 | HDSP-F101       | HDSP-N151       |
| HLMP-2785-EF000 | HDSP-5551       | HDSP-F101-EF000 | HDSP-N153       |
| HLMP-2785-EFB00 | HDSP-5553       | HDSP-F103       | HDSP-U101       |
| HLMP-2800       | HDSP-5553-BC000 | HDSP-F103-EF000 | HDSP-U103       |
| HLMP-2820       | HDSP-5557       | HDSP-F107       | HDSP-U111       |
| HLMP-2820-FG000 | HDSP-5558       | HDSP-F108       | HDSP-U111-EG000 |
| HLMP-2835       | HDSP-5601       | HDSP-F111       | HDSP-U113       |
| HLMP-2855       | HDSP-5601-GH000 | HDSP-F111-EF000 | HDSP-U113-FG000 |
| HLMP-2855-FG000 | HDSP-5603       | HDSP-F113       | HDSP-U201       |
| HLMP-2870       | HDSP-5603-GH000 | HDSP-F151       | HDSP-U203       |
| HLMP-2870-FG000 | HDSP-5607       | HDSP-F151-MN000 | HDSP-U203-CD000 |
| HLMP-2885       | HDSP-5607-GH000 | HDSP-F153       | HDSP-U211       |
| HLMP-2885-FG000 | HDSP-5608       | HDSP-F153-NO000 | HDSP-U211-CD000 |
| HLMP-2950       | HDSP-5621       | HDSP-F157       | HDSP-U213       |
| HLMP-2965       | HDSP-5621-GH000 | HDSP-F158       | HDSP-U213-CD000 |
| QDSP-4985       | HDSP-5621-GH400 | HDSP-F161       | HDSP-U301       |
| QLCP-B247       | HDSP-5623       | HDSP-F201       | HDSP-U303       |
| QLCP-C146       | HDSP-5623-GH000 | HDSP-F201-DE000 | HDSP-U311       |
| QLCP-M096       | HDSP-5701       | HDSP-F203       | HDSP-U313       |
| QLMP-2976       | HDSP-5701-FG000 | HDSP-F203-DE000 | HDSP-U401       |
| 5082-7610       | HDSP-5703       | HDSP-F207       | HDSP-U403       |
| 5082-7610-CD000 | HDSP-5703-FG000 | HDSP-F208       | HDSP-U411       |
| 5082-7611       | HDSP-5721       | HDSP-F211       | HDSP-U413       |
| 5082-7611-DE000 | HDSP-5721-FG000 | HDSP-F211-DE000 | HDSP-U413-LN000 |
| 5082-7613       | HDSP-5723       | HDSP-F213       | HDSP-U501       |
| 5082-7613-CD000 | HDSP-5811       | HDSP-F213-DE000 | HDSP-U501-JOC00 |

|                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| 5082-7620       | HDSP-5813       | HDSP-F301       | HDSP-U503       |
| 5082-7621       | HDSP-7401       | HDSP-F301-DE000 | HDSP-U503-KL000 |
| 5082-7623       | HDSP-7401-DE000 | HDSP-F303       | HDSP-U511       |
| 5082-7650       | HDSP-7403       | HDSP-F303-DE000 | HDSP-U511-KL000 |
| 5082-7650-DD000 | HDSP-7403-DE000 | HDSP-F303-DE016 | HDSP-U513       |
| 5082-7651       | HDSP-7501       | HDSP-F401       | HDSP-U513-KL000 |
| 5082-7651-DD000 | HDSP-7501-CD000 | HDSP-F403       | QDSC-A000       |
| 5082-7651-DE000 | HDSP-7502       | HDSP-F413       | QDSP-7488       |
| 5082-7653       | HDSP-7502-CD000 | HDSP-F501       | QDSP-7590       |
| 5082-7653-DE000 | HDSP-7503       | HDSP-F501-JK000 | QDSP-A586       |
| 5082-7656       | HDSP-7503-CD000 | HDSP-F503       | QDSP-F140       |
| 5082-7661       | HDSP-7503-DD000 | HDSP-F503-JK000 | QDSP-K580       |
| 5082-7663       | HDSP-7504       | HDSP-F503-JK016 | QDSP-S023       |
| 5082-7666       | HDSP-7507       | HDSP-F511       | QDSP-S062       |
| HDSP-315E       | HDSP-7508       | HDSP-F511-IJ000 | QDSP-U236       |
| 5082-7616       | HDSP-3906       | HDSP-8606       | QDSP-U238       |
| 5082-7616-DD000 | HDSP-4206       | HDSP-N156       | QDSP-U239       |