

April 20, 2011  
May 4, 2011 (update)

CN-042011A

## Customer Notification

### Alternate Raw Materials

Dear Valued Customer:

This notification is to inform you of necessary changes to the raw materials used by Mindspeed suppliers due to the recent catastrophic events in Japan. Mindspeed has worked aggressively with our suppliers since these events to mitigate the supply risk and to secure materials to meet existing customer orders for the current quarter. Our suppliers have provided a short list of alternate materials that are necessary at this time for continued support beyond the current quarter.

#### Purpose

Recent catastrophic events in Japan have impacted the supply of key IC manufacturing raw materials such as substrate BT core material, copper wire, mold compound and die attach. This notification identifies the alternate raw material sources necessary to assure continued supply of the products listed below.

#### Materials Affected

| <b>Amkor</b>         |                                  |                           |
|----------------------|----------------------------------|---------------------------|
| <b>xBGA packages</b> | <b>Current Material</b>          | <b>Alternate Material</b> |
| BT Core Material     | MGC HL-832NX;<br>Hitachi E679FGB | Doosan DS7409HGB          |

#### Parts Affected

|             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|
| 28237-12    | 28237G-12   | 28250-16    | 28477G-18   | 28478-18    |
| 28478G-18   | CX20501-12  | CX20501G-12 | CX28225-14  | CX28225G-14 |
| CX28229-14  | CX28229G-14 | CX28365-14  | CX29610-12  | CX29701-14  |
| CX29701G-14 | CX29702-14  | CX29702G-14 | CX29704G-14 | M21115G-12  |
| M21125G-12  | M21130-11   | M28352-15   | M28352G-15  | M28353-15   |
| M28353G-15  | M28354-15   | M28945-13   | M28945G-13  | M28946-13   |
| M28946G-13  | M28947-13   | M28947G-13  | M28950-13   | M28950G-13  |
| M28985-21   | M28985G-21  | M29311-11   | M29312-11   | M29312G-11  |
| M29312-11   | M29312G-11  | M821xx-xx   | M821xxG-xx  | M823xx-xx   |
| M823xxG-xx  | M825xx-xx   | M825xxG-xx  | M826xx-xx   | M826xxG-xx  |
| M8271x-xx   | M8271xG-xx  | M828xx-xx   | M828xxG-xx  | M829xx-xx   |
| M829xxG-xx  |             |             |             |             |

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| <b>ASE Malaysia</b>                   |                         |                           |
|---------------------------------------|-------------------------|---------------------------|
| <b>xBGA packages</b>                  | <b>Current Material</b> | <b>Alternate Material</b> |
| BT Core Material                      | MGC HL-832NX            | Hitachi E679FGB           |
| Cu Wire (existing Cu wire parts only) | Nippon                  | Tanaka                    |
| Mold Compound                         | Hitachi CEL-9750 ZHF10  | Kyocera KEG2250           |

Parts Affected

|            |            |            |            |            |
|------------|------------|------------|------------|------------|
| M82172G-xx | M823xx-xx  | M823xxG-xx | M825xx-xx  | M825xxG-xx |
| M826xx-xx  | M826xxG-xx | M82710-xx  | M82710G-xx | M828xx-xx  |
| M828xxG-xx | M832xxG-xx |            |            |            |

| <b>ASE Malaysia</b> |                           |                           |
|---------------------|---------------------------|---------------------------|
| <b>QFN</b>          | <b>Current Material</b>   | <b>Alternate Material</b> |
| Die Attach          | Sumitomo CRM1076DS        | Namics XH-9816            |
| Mold Compound       | Hitachi CEL-9420HF10AK-G1 | Sumitomo G631             |

Parts Affected

|            |            |            |            |            |
|------------|------------|------------|------------|------------|
| M02067G-11 | M02067G-12 | M02087G-12 | M02090G-14 | M02095G-12 |
| M02096G-12 | M02098G-13 | M07860G-13 | M08886G-13 | M21030G-14 |
| M21330G-14 | M21351G-14 | M21450G-14 | M21450G-15 | M21451G-14 |
| M21451G-16 |            |            |            |            |

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### Change Schedule

The alternate materials may be used starting with July builds.

### Method to identify parts

There is no means to identify which raw material is used on each part however; our manufacturing partners maintain lot traceability.

### Customer Impact

No customer impact is anticipated due to the alternate materials listed in this notice as our suppliers have qualified these raw material suppliers and they are used on other parts in high volume production. There is the potential impact to face supply shortages starting in the calendar Q3 quarter if the alternate materials in this notification are not approved by the customer.

We are confident this change will allow Mindspeed Technologies to maintain its high standards for quality and reliability. We will be managing this change very closely to ensure minimum disruption to our customers. If, at any time, you have a need for further information, please contact your local Sales Representative.

Lack of acknowledgement of this PCN within 30 days constitutes acceptance of the change. After acknowledgement, lack of additional response within the 90 day review period constitutes acceptance to the change.

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## Customer Notification Alternate Raw Materials

The indicated Customer Notification letter was received and acknowledged by the undersigned authority.

Name: \_\_\_\_\_  
Signature \_\_\_\_\_ Print \_\_\_\_\_

Company: \_\_\_\_\_  
Name \_\_\_\_\_ Location \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Comments/additional requests: \_\_\_\_\_

Thank you for your attention on this matter.

Please return the acknowledgment form to the attention of Ralph Crowther  
MINDSPEED Technologies Inc., 4000 MacArthur Blvd, Newport Beach, Ca,  
92660; FAX (949)579-5404.