

March 05, 2014

**PCN Number:** 1201D

**PCN Change Level:** Major

**Subject:** Amended PCN1201 – Product Conversion to Copper Wire (palladium coated copper wire)

**Reference:** PCN1201C, issued in June 24, 2013

Dear Microsemi Customer,

This notice is to inform you that Microsemi SoC Products Group has successfully completed qualification of the copper bond wire on selected products, per JEDEC standard, and shipments have begun per schedule, as listed in Table 1 on page 2. However, mixed shipments could continue until products built with the gold wire are depleted from the inventory.

Conversion to Palladium Coated Copper wire (PCC wire) is aligned with the current industry trend. Our assembly vendors have extensive experience in the copper bond wire assembly. The copper wire is used in high volume production by our assembly vendors and has demonstrated better electrical and mechanical property than the gold wire. Products built with the copper bond wire will have no change to package Moisture Sensitivity Level (MSL), Product Functionality, Performance, Quality, Reliability, or Product Datasheet.

Products built with the copper wire have a different set of BOM, which is more suitable for the copper wire and will provide better quality and reliability. However, products built with the gold wire will remain with the same BOM as before. Please request more details from Microsemi on the BOM for the copper wire if you have questions.

**Table 1 • Intended Schedule of Shipment**

| Device/Package                                                                                   | Assembly Location | Date               |
|--------------------------------------------------------------------------------------------------|-------------------|--------------------|
| <b>Phase I:</b> A3P250 and smaller ProASIC®3 devices in PQ208/PQG208                             | Amkor, Phil       | April 9, 2012      |
| <b>Phase II:</b> A3P250/AGL250 and smaller ProASIC3/ IGLOO® devices in FG256/FGG256/FG144/FGG144 | UDG, China        | June 30, 2012      |
| <b>Phase III:</b> ProASIC3/IGLOO devices in VQ100/VQG100                                         | Amkor, Phil       | August 3, 2012     |
| <b>Phase IV:</b> ProASIC3/IGLOO devices in FG256/FGG256/FG144/FGG144                             | UDG, China        | August 15, 2012    |
| <b>Phase V:</b> A3PN250/AGLN250 and smaller ProASIC3/IGLOO nano devices in VQ100/VQG100          | Amkor, Phil       | April 11, 2013     |
| <b>Phase VI:</b> APA600 and smaller ProASIC <sup>PLUS</sup> devices in FG256/FGG256/FG144/FGG144 | UDG, China        | April 15, 2013     |
| <b>Phase VII:</b> AGL030/AGLN030 and smaller IGLOO/Nano devices in QNG68/QNG48                   | UDG, China        | April 15, 2013     |
| <b>Phase VIII:</b> A3P030/A3PN030 and smaller ProASIC3/Nano devices in QNG68/QNG48               | UDG, China        | September 23, 2013 |
| <b>Phase IX:</b> A3P030/AGL030 in VQ100/VQG100                                                   | Amkor, Phil       | June 10, 2014      |

\*Refer to part number list (Table 2 to Table 10) for details and applicable Qualification Reports.

Part numbers listed in Table 2 have been shipping with the copper wire since April 9, 2012. Part numbers listed in Tables 3 to 10, will be converted per the stated schedule. For a list of other remaining part numbers that are planned for conversion, refer to amended [www.microsemi.com/document-portal/doc\\_download/130654-cn-1110-microsemi-products-with-copper-wirebond-material](http://www.microsemi.com/document-portal/doc_download/130654-cn-1110-microsemi-products-with-copper-wirebond-material).

The summary of the amendments in this PCN are shown on the last page. For additional information, go to: [http://www.microsemi.com/index.php?option=com\\_docman&Itemid=1898&gid=132099&lang=en&task=doc\\_download](http://www.microsemi.com/index.php?option=com_docman&Itemid=1898&gid=132099&lang=en&task=doc_download).

If you have any questions or need more information, please contact Microsemi's Technical Support department by emailing [soc\\_tech@microsemi.com](mailto:soc_tech@microsemi.com).

Regards,

Microsemi Corporation

Technical support:

Web: [www.microsemi.com/soc/mycases](http://www.microsemi.com/soc/mycases)

Phone (NA): 800.262.1060

Phone (Int'l): +1 650.318.4460

Email: [soc\\_tech@microsemi.com](mailto:soc_tech@microsemi.com)

**Table 2 • Phase I – Affected Part Numbers, shipment began April 9, 2012  
(Qualification Report PA-158)**

|                 |                   |                   |
|-----------------|-------------------|-------------------|
| A3P250-PQ208    | A3P250L-1PQG208   | M1A3P250-2PQG208I |
| A3P250-PQG208   | A3P250L-PQG208I   | M1A3P250-2PQG208I |
| A3P250-1PQ208   | A3P250L-PQG208I   | A3P125-PQ208      |
| A3P250-1PQG208  | A3P250L-1PQG208I  | A3P125-PQG208     |
| A3P250-2PQ208   | A3P250L-1PQG208I  | A3P125-1PQ208     |
| A3P250-2PQG208  | M1A3P250-PQ208    | A3P125-1PQG208    |
| A3P250-PQ208I   | M1A3P250-PQG208   | A3P125-2PQ208     |
| A3P250-PQG208I  | M1A3P250-1PQ208   | A3P125-2PQG208    |
| A3P250-1PQ208I  | M1A3P250-1PQG208  | A3P125-PQ208I     |
| A3P250-1PQG208I | M1A3P250-2PQ208   | A3P125-PQG208I    |
| A3P250-2PQ208I  | M1A3P250-2PQG208  | A3P125-1PQ208I    |
| A3P250-2PQG208I | M1A3P250-PQ208I   | A3P125-1PQG208I   |
| A3P250L-PQ208   | M1A3P250-PQG208I  | A3P125-2PQ208I    |
| A3P250L-PQG208  | M1A3P250-1PQ208I  | A3P125-2PQG208I   |
| A3P250L-1PQ208  | M1A3P250-1PQG208I |                   |

**Table 3 • Phase II – Affected Part Numbers, shipment began June 30, 2012  
(Qualification Report PA-159)**

|                 |                 |                    |
|-----------------|-----------------|--------------------|
| A3P250-FG256    | A3P250-FGG256I  | A3P250L-1FG256     |
| A3P250-FGG256   | A3P250-1FG256I  | A3P250L-1FGG256    |
| A3P250-1FG256   | A3P250-1FGG256I | A3P250L-FG256I     |
| A3P250-1FGG256  | A3P250-2FG256I  | A3P250L-FGG256I    |
| A3P250-2FG256   | A3P250-2FGG256I | A3P250L-1FG256I    |
| A3P250-2FGG256  | A3P250L-FG256   | A3P250L-1FGG256I   |
| A3P250-FG256I   | A3P250L-FGG256  |                    |
| A3P060-FG144    | A3P250-1FGG144  | M1A3P250-2FG144I   |
| A3P060-FGG144   | A3P250-2FG144   | M1A3P250-2FGG144I  |
| A3P060-1FG144   | A3P250-2FGG144  | M1AGL250V2-FG144   |
| A3P060-1FGG144  | A3P250-FG144I   | M1AGL250V2-FGG144  |
| A3P060-2FG144   | A3P250-FGG144I  | M1AGL250V2-FG144I  |
| A3P060-2FGG144  | A3P250-1FG144I  | M1AGL250V2-FGG144I |
| A3P060-FG144I   | A3P250-1FGG144I | M1AGL250V5-FG144   |
| A3P060-FGG144I  | A3P250-2FG144I  | M1AGL250V5-FGG144  |
| A3P060-1FG144I  | A3P250-2FGG144I | M1AGL250V5-FG144I  |
| A3P060-1FGG144I | A3P250L-FG144   | M1AGL250V5-FGG144I |
| A3P060-2FG144I  | A3P250L-FGG144  | AGL125V2-FG144     |
| A3P060-2FGG144I | A3P250L-1FG144  | AGL125V2-FGG144    |
| A3P125-FG144    | A3P250L-1FGG144 | AGL125V2-FG144I    |
| A3P125-FGG144   | A3P250L-FG144I  | AGL125V2-FGG144I   |

**Table 3 • Phase II – Affected Part Numbers, shipment began June 30, 2012  
(Qualification Report PA-159)**

|                 |                   |                  |
|-----------------|-------------------|------------------|
| A3P125-1FG144   | A3P250L-FGG144I   | AGL125V5-FG144   |
| A3P125-1FGG144  | A3P250L-1FG144I   | AGL125V5-FGG144  |
| A3P125-2FG144   | A3P250L-1FGG144I  | AGL125V5-FG144I  |
| A3P125-2FGG144  | M1A3P250-FG144    | AGL125V5-FGG144I |
| A3P125-FG144I   | M1A3P250-FGG144   | AGL250V2-FG144   |
| A3P125-FGG144I  | M1A3P250-1FG144   | AGL250V2-FGG144  |
| A3P125-1FG144I  | M1A3P250-1FGG144  | AGL250V2-FG144I  |
| A3P125-1FGG144I | M1A3P250-2FG144   | AGL250V2-FGG144I |
| A3P125-2FG144I  | M1A3P250-2FGG144  | AGL250V5-FG144   |
| A3P125-2FGG144I | M1A3P250-FG144I   | AGL250V5-FGG144  |
| A3P250-FG144    | M1A3P250-FGG144I  | AGL250V5-FG144I  |
| A3P250-FGG144   | M1A3P250-1FG144I  | AGL250V5-FGG144I |
| A3P250-1FG144   | M1A3P250-1FGG144I |                  |

**Table 4 • Phase III – Affected Part Numbers, shipment began August 3, 2012  
(Qualification Report PA-160)**

|                   |                   |                    |
|-------------------|-------------------|--------------------|
| A3P060-VQ100      | A3P250-1VQG100    | AGL125V2-VQ100I    |
| A3P060-VQG100     | A3P250-2VQ100     | AGL125V2-VQG100I   |
| A3P060-1VQ100     | A3P250-2VQG100    | AGLN125V2-ZVQ100   |
| A3P060-1VQG100    | A3P250-VQ100I     | AGLN125V2-ZVQG100  |
| A3P060-2VQ100     | A3P250-VQG100I    | AGLN125V2-ZVQ100I  |
| A3P060-2VQG100    | A3P250-1VQ100I    | AGLN125V2-ZVQG100I |
| A3P060-VQ100I     | A3P250-1VQG100I   | AGL125V5-VQ100     |
| A3P060-VQG100I    | A3P250-2VQ100I    | AGL125V5-VQG100    |
| A3P060-1VQ100I    | A3P250-2VQG100I   | AGL125V5-VQ100I    |
| A3P060-1VQG100I   | A3P250-VQ100M     | AGL125V5-VQG100I   |
| A3P060-2VQ100I    | A3P250-VQG100M    | AGLN125V5-ZVQ100   |
| A3P060-2VQG100I   | A3P250-1VQ100M    | AGLN125V5-ZVQG100  |
| A3PN060-ZVQ100    | A3P250-1VQG100M   | AGLN125V5-ZVQ100I  |
| A3PN060-ZVQG100   | A3PN250-ZVQ100    | AGLN125V5-ZVQG100I |
| A3PN060-Z1VQ100   | A3PN250-ZVQG100   | AGL250V2-VQ100     |
| A3PN060-Z1VQG100  | A3PN250-Z1VQ100   | AGL250V2-VQG100    |
| A3PN060-Z2VQ100   | A3PN250-Z1VQG100  | AGL250V2-VQ100I    |
| A3PN060-Z2VQG100  | A3PN250-Z2VQ100   | AGL250V2-VQG100I   |
| A3PN060-ZVQ100I   | A3PN250-Z2VQG100  | AGLN250V2-ZVQ100   |
| A3PN060-ZVQG100I  | A3PN250-ZVQ100I   | AGLN250V2-ZVQG100  |
| A3PN060-Z1VQ100I  | A3PN250-ZVQG100I  | AGLN250V2-ZVQ100I  |
| A3PN060-Z1VQG100I | A3PN250-Z1VQ100I  | AGLN250V2-ZVQG100I |
| A3PN060-Z2VQ100I  | A3PN250-Z1VQG100I | AGL250V5-VQ100     |

**Table 4 • Phase III – Affected Part Numbers, shipment began August 3, 2012  
(Qualification Report PA-160)**

|                   |                    |                    |
|-------------------|--------------------|--------------------|
| A3PN060-Z2VQG100I | A3PN250-Z2VQ100I   | AGL250V5-VQG100    |
| A3P125-VQ100      | A3PN250-Z2VQG100I  | AGL250V5-VQ100I    |
| A3P125-VQG100     | A3P250L-VQ100      | AGL250V5-VQG100I   |
| A3P125-1VQ100     | A3P250L-VQG100     | AGLN250V5-ZVQ100   |
| A3P125-1VQG100    | A3P250L-1VQ100     | AGLN250V5-ZVQG100  |
| A3P125-2VQ100     | A3P250L-1VQG100    | AGLN250V5-ZVQ100I  |
| A3P125-2VQG100    | A3P250L-VQ100I     | AGLN250V5-ZVQG100I |
| A3P125-VQ100I     | A3P250L-VQG100I    | M1A3P250-VQ100     |
| A3P125-VQG100I    | A3P250L-1VQ100I    | M1A3P250-VQG100    |
| A3P125-1VQ100I    | A3P250L-1VQG100I   | M1A3P250-1VQ100    |
| A3P125-1VQG100I   | AGL060V2-VQ100     | M1A3P250-1VQG100   |
| A3P125-2VQ100I    | AGL060V2-VQG100    | M1A3P250-2VQ100    |
| A3P125-2VQG100I   | AGL060V2-VQ100I    | M1A3P250-2VQG100   |
| A3PN125-ZVQ100    | AGL060V2-VQG100I   | M1A3P250-VQ100I    |
| A3PN125-ZVQG100   | AGLN060V2-ZVQ100   | M1A3P250-VQG100I   |
| A3PN125-Z1VQ100   | AGLN060V2-ZVQG100  | M1A3P250-1VQ100I   |
| A3PN125-Z1VQG100  | AGLN060V2-ZVQ100I  | M1A3P250-1VQG100I  |
| A3PN125-Z2VQ100   | AGLN060V2-ZVQG100I | M1A3P250-2VQ100I   |
| A3PN125-Z2VQG100  | AGL060V5-VQ100     | M1A3P250-2VQG100I  |
| A3PN125-ZVQ100I   | AGL060V5-VQG100    | M1AGL250V2-VQ100   |
| A3PN125-ZVQG100I  | AGL060V5-VQ100I    | M1AGL250V2-VQG100  |
| A3PN125-Z1VQ100I  | AGL060V5-VQG100I   | M1AGL250V2-VQ100I  |
| A3PN125-Z1VQG100I | AGLN060V5-ZVQ100   | M1AGL250V2-VQG100I |
| A3PN125-Z2VQ100I  | AGLN060V5-ZVQG100  | M1AGL250V5-VQ100   |
| A3PN125-Z2VQG100I | AGLN060V5-ZVQ100I  | M1AGL250V5-VQG100  |
| A3P250-VQ100      | AGLN060V5-ZVQG100I | M1AGL250V5-VQ100I  |
| A3P250-VQG100     | AGL125V2-VQ100     | M1AGL250V5-VQG100I |
| A3P250-1VQ100     | AGL125V2-VQG100    |                    |

**Table 5 • Phase IV – Affected Part Numbers, shipment began August 15, 2012  
(Qualification Report PA-161)**

|                    |                     |                  |
|--------------------|---------------------|------------------|
| M7A3P1000-1FG144   | M1A3P1000L-FG144    | A3P1000-FG144    |
| M7A3P1000-1FG144I  | M1A3P1000L-FGG144   | A3P1000-FGG144   |
| M7A3P1000-1FG256   | M1A3P1000L-1FG144   | A3P1000-1FG144   |
| M7A3P1000-1FG256I  | M1A3P1000L-1FGG144  | A3P1000-1FGG144  |
| M7A3P1000-1FGG144  | M1A3P1000L-FG144I   | A3P1000-2FG144   |
| M7A3P1000-1FGG144I | M1A3P1000L-FGG144I  | A3P1000-2FGG144  |
| M7A3P1000-1FGG256  | M1A3P1000L-1FG144I  | A3P1000-FG144I   |
| M7A3P1000-1FGG256I | M1A3P1000L-1FGG144I | A3P1000-FGG144I  |
| M7A3P1000-2FG144   | M1A3P1000L-FG256    | A3P1000-1FG144I  |
| M7A3P1000-2FG144I  | M1A3P1000L-FGG256   | A3P1000-1FGG144I |
| M7A3P1000-2FG256   | M1A3P1000L-1FG256   | A3P1000-2FG144I  |
| M7A3P1000-2FG256I  | M1A3P1000L-1FGG256  | A3P1000-2FGG144I |
| M7A3P1000-2FGG144  | M1A3P1000L-FG256I   | A3P1000-FG144M   |
| M7A3P1000-2FGG144I | M1A3P1000L-FGG256I  | A3P1000-FGG144M  |
| M7A3P1000-2FGG256  | M1A3P1000L-1FG256I  | A3P1000-1FG144M  |
| M7A3P1000-2FGG256I | M1A3P1000L-1FGG256I | A3P1000-1FGG144M |
| M7A3P1000-FG144    | M1AGL250V2-FG144    | A3P1000-FG256    |
| M7A3P1000-FG144I   | M1AGL250V2-FGG144   | A3P1000-FGG256   |
| M7A3P1000-FG256    | M1AGL250V2-FG144I   | A3P1000-1FG256   |
| M7A3P1000-FG256I   | M1AGL250V2-FGG144I  | A3P1000-1FGG256  |
| M7A3P1000-FGG144   | M1AGL250V5-FG144    | A3P1000-2FG256   |
| M7A3P1000-FGG144I  | M1AGL250V5-FGG144   | A3P1000-2FGG256  |
| M7A3P1000-FGG256   | M1AGL250V5-FG144I   | A3P1000-FG256I   |
| M7A3P1000-FGG256I  | M1AGL250V5-FGG144I  | A3P1000-FGG256I  |
| M1A3P400-FG144     | M1AGL600V2-FG144    | A3P1000-1FG256I  |
| M1A3P400-FGG144    | M1AGL600V2-FGG144   | A3P1000-1FGG256I |
| M1A3P400-1FG144    | M1AGL600V2-FG144I   | A3P1000-2FG256I  |
| M1A3P400-1FGG144   | M1AGL600V2-FGG144I  | A3P1000-2FGG256I |
| M1A3P400-2FG144    | M1AGL600V2-FG256    | A3P600L-FG144    |
| M1A3P400-2FGG144   | M1AGL600V2-FGG256   | A3P600L-FGG144   |
| M1A3P400-FG144I    | M1AGL600V2-FG256I   | A3P600L-1FG144   |
| M1A3P400-FGG144I   | M1AGL600V2-FGG256I  | A3P600L-1FGG144  |
| M1A3P400-1FG144I   | M1AGL600V5-FG144    | A3P600L-FG144I   |
| M1A3P400-1FGG144I  | M1AGL600V5-FGG144   | A3P600L-FGG144I  |
| M1A3P400-2FG144I   | M1AGL600V5-FG144I   | A3P600L-1FG144I  |
| M1A3P400-2FGG144I  | M1AGL600V5-FGG144I  | A3P600L-1FGG144I |
| M1A3P400-FG256     | M1AGL600V5-FG256    | A3P600L-FG256    |
| M1A3P400-FGG256    | M1AGL600V5-FGG256   | A3P600L-FGG256   |
| M1A3P400-1FG256    | M1AGL600V5-FG256I   | A3P600L-1FG256   |
| M1A3P400-1FGG256   | M1AGL600V5-FGG256I  | A3P600L-1FGG256  |

**Table 5 • Phase IV – Affected Part Numbers, shipment began August 15, 2012  
(Qualification Report PA-161)**

|                   |                     |                   |
|-------------------|---------------------|-------------------|
| M1A3P400-2FG256   | M1AGL1000V2-FG144   | A3P600L-FG256I    |
| M1A3P400-2FGG256  | M1AGL1000V2-FGG144  | A3P600L-FGG256I   |
| M1A3P400-FG256I   | M1AGL1000V2-FG144I  | A3P600L-1FG256I   |
| M1A3P400-FGG256I  | M1AGL1000V2-FGG144I | A3P600L-1FGG256I  |
| M1A3P400-1FG256I  | M1AGL1000V2-FG256   | A3P1000L-FG144    |
| M1A3P400-1FGG256I | M1AGL1000V2-FGG256  | A3P1000L-FGG144   |
| M1A3P400-2FG256I  | M1AGL1000V2-FG256I  | A3P1000L-1FG144   |
| M1A3P400-2FGG256I | M1AGL1000V2-FGG256I | A3P1000L-1FGG144  |
| M1A3P600-FG144    | M1AGL1000V5-FG144   | A3P1000L-FG144I   |
| M1A3P600-FGG144   | M1AGL1000V5-FGG144  | A3P1000L-FGG144I  |
| M1A3P600-1FG144   | M1AGL1000V5-FG144I  | A3P1000L-1FG144I  |
| M1A3P600-1FGG144  | M1AGL1000V5-FGG144I | A3P1000L-1FGG144I |
| M1A3P600-2FG144   | M1AGL1000V5-FG256   | A3P1000L-FG256    |
| M1A3P600-2FGG144  | M1AGL1000V5-FGG256  | A3P1000L-FGG256   |
| M1A3P600-FG144I   | M1AGL1000V5-FG256I  | A3P1000L-1FG256   |
| M1A3P600-FGG144I  | M1AGL1000V5-FGG256I | A3P1000L-1FGG256  |
| M1A3P600-1FG144I  | A3P400-FG144        | A3P1000L-FG256I   |
| M1A3P600-1FGG144I | A3P400-FGG144       | A3P1000L-FGG256I  |
| M1A3P600-2FG144I  | A3P400-1FG144       | A3P1000L-1FG256I  |
| M1A3P600-2FGG144I | A3P400-1FGG144      | A3P1000L-1FGG256I |
| M1A3P600-FG256    | A3P400-2FG144       | AGL400V2-FG144    |
| M1A3P600-FGG256   | A3P400-2FGG144      | AGL400V2-FGG144   |
| M1A3P600-1FG256   | A3P400-FG144I       | AGL400V2-FG144I   |
| M1A3P600-1FGG256  | A3P400-FGG144I      | AGL400V2-FGG144I  |
| M1A3P600-2FG256   | A3P400-1FG144I      | AGL400V2-FG256    |
| M1A3P600-2FGG256  | A3P400-1FGG144I     | AGL400V2-FGG256   |
| M1A3P600-FG256I   | A3P400-2FG144I      | AGL400V2-FG256I   |
| M1A3P600-FGG256I  | A3P400-2FGG144I     | AGL400V2-FGG256I  |
| M1A3P600-1FG256I  | A3P400-FG256        | AGL400V5-FG144    |
| M1A3P600-1FGG256I | A3P400-FGG256       | AGL400V5-FGG144   |
| M1A3P600-2FG256I  | A3P400-1FG256       | AGL400V5-FG144I   |
| M1A3P600-2FGG256I | A3P400-1FGG256      | AGL400V5-FGG144I  |
| M1A3P1000-FG144   | A3P400-2FG256       | AGL400V5-FG256    |
| M1A3P1000-FGG144  | A3P400-2FGG256      | AGL400V5-FGG256   |
| M1A3P1000-1FG144  | A3P400-FG256I       | AGL400V5-FG256I   |
| M1A3P1000-1FGG144 | A3P400-FGG256I      | AGL400V5-FGG256I  |
| M1A3P1000-2FG144  | A3P400-1FG256I      | AGL600V2-FG144    |
| M1A3P1000-2FGG144 | A3P400-1FGG256I     | AGL600V2-FGG144   |
| M1A3P1000-FG144I  | A3P400-2FG256I      | AGL600V2-FG144I   |
| M1A3P1000-FGG144I | A3P400-2FGG256I     | AGL600V2-FGG144I  |

**Table 5 • Phase IV – Affected Part Numbers, shipment began August 15, 2012  
(Qualification Report PA-161)**

|                    |                  |                   |
|--------------------|------------------|-------------------|
| M1A3P1000-1FG144I  | A3P600-FG144     | AGL600V2-FG256    |
| M1A3P1000-1FGG144I | A3P600-FGG144    | AGL600V2-FGG256   |
| M1A3P1000-2FG144I  | A3P600-1FG144    | AGL600V2-FG256I   |
| M1A3P1000-2FGG144I | A3P600-1FGG144   | AGL600V2-FGG256I  |
| M1A3P1000-FG144M   | A3P600-2FG144    | AGL600V5-FG144    |
| M1A3P1000-FGG144M  | A3P600-2FGG144   | AGL600V5-FGG144   |
| M1A3P1000-1FG144M  | A3P600-FG144I    | AGL600V5-FG144I   |
| M1A3P1000-1FGG144M | A3P600-FGG144I   | AGL600V5-FGG144I  |
| M1A3P1000-FG256    | A3P600-1FG144I   | AGL600V5-FG256    |
| M1A3P1000-FGG256   | A3P600-1FGG144I  | AGL600V5-FGG256   |
| M1A3P1000-1FG256   | A3P600-2FG144I   | AGL600V5-FG256I   |
| M1A3P1000-1FGG256  | A3P600-2FGG144I  | AGL600V5-FGG256I  |
| M1A3P1000-2FG256   | A3P600-FG256     | AGL1000V2-FG144   |
| M1A3P1000-2FGG256  | A3P600-FGG256    | AGL1000V2-FGG144  |
| M1A3P1000-FG256I   | A3P600-1FG256    | AGL1000V2-FG144I  |
| M1A3P1000-FGG256I  | A3P600-1FGG256   | AGL1000V2-FGG144I |
| M1A3P1000-1FG256I  | A3P600-2FG256    | AGL1000V2-FG256   |
| M1A3P1000-1FGG256I | A3P600-2FGG256   | AGL1000V2-FGG256  |
| M1A3P1000-2FG256I  | A3P600-FG256I    | AGL1000V2-FG256I  |
| M1A3P1000-2FGG256I | A3P600-FGG256I   | AGL1000V2-FGG256I |
| M1A3P600L-FG144    | A3P600-1FG256I   | AGL1000V5-FG144   |
| M1A3P600L-FGG144   | A3P600-1FGG256I  | AGL1000V5-FGG144  |
| M1A3P600L-1FG144   | A3P600-2FG256I   | AGL1000V5-FG144I  |
| M1A3P600L-1FGG144  | A3P600-2FGG256I  | AGL1000V5-FGG144I |
| M1A3P600L-FG144I   | A3PE600-FG256    | AGL1000V5-FG256   |
| M1A3P600L-FGG144I  | A3PE600-FGG256   | AGL1000V5-FGG256  |
| M1A3P600L-1FG144I  | A3PE600-1FG256   | AGL1000V5-FG256I  |
| M1A3P600L-1FGG144I | A3PE600-1FGG256  | AGL1000V5-FGG256I |
| M1A3P600L-FG256    | A3PE600-2FG256   | AGLE600V2-FG256   |
| M1A3P600L-FGG256   | A3PE600-2FGG256  | AGLE600V2-FGG256  |
| M1A3P600L-1FG256   | A3PE600-FG256I   | AGLE600V2-FG256I  |
| M1A3P600L-1FGG256  | A3PE600-FGG256I  | AGLE600V2-FGG256I |
| M1A3P600L-FG256I   | A3PE600-1FG256I  | AGLE600V5-FG256   |
| M1A3P600L-FGG256I  | A3PE600-1FGG256I | AGLE600V5-FGG256  |
| M1A3P600L-1FG256I  | A3PE600-2FG256I  | AGLE600V5-FG256I  |
| M1A3P600L-1FGG256I | A3PE600-2FGG256I | AGLE600V5-FGG256I |

**Table 6 • Phase V – Affected Part Numbers, shipment began April 22, 2013  
(Qualification Report PA-166)**

|                  |                   |                   |
|------------------|-------------------|-------------------|
| A3PN060-VQ100    | A3PN125-1VQ100I   | AGLN060V5-VQ100   |
| A3PN060-VQG100   | A3PN125-1VQG100I  | AGLN060V5-VQG100  |
| A3PN060-1VQ100   | A3PN125-2VQ100I   | AGLN060V5-VQ100I  |
| A3PN060-1VQG100  | A3PN125-2VQG100I  | AGLN060V5-VQG100I |
| A3PN060-2VQ100   | A3PN250-VQ100     | AGLN125V2-VQ100   |
| A3PN060-2VQG100  | A3PN250-VQG100    | AGLN125V2-VQG100  |
| A3PN060-VQ100I   | A3PN250-1VQ100    | AGLN125V2-VQ100I  |
| A3PN060-VQG100I  | A3PN250-1VQG100   | AGLN125V2-VQG100I |
| A3PN060-1VQ100I  | A3PN250-2VQ100    | AGLN125V5-VQ100   |
| A3PN060-1VQG100I | A3PN250-2VQG100   | AGLN125V5-VQG100  |
| A3PN060-2VQ100I  | A3PN250-VQ100I    | AGLN125V5-VQ100I  |
| A3PN060-2VQG100I | A3PN250-VQG100I   | AGLN125V5-VQG100I |
| A3PN125-VQ100    | A3PN250-1VQ100I   | AGLN250V2-VQ100   |
| A3PN125-VQG100   | A3PN250-1VQG100I  | AGLN250V2-VQG100  |
| A3PN125-1VQ100   | A3PN250-2VQ100I   | AGLN250V2-VQ100I  |
| A3PN125-1VQG100  | A3PN250-2VQG100I  | AGLN250V2-VQG100I |
| A3PN125-2VQ100   | AGLN060V2-VQ100   | AGLN250V5-VQ100   |
| A3PN125-2VQG100  | AGLN060V2-VQG100  | AGLN250V5-VQG100  |
| A3PN125-VQ100I   | AGLN060V2-VQ100I  | AGLN250V5-VQ100I  |
| A3PN125-VQG100I  | AGLN060V2-VQG100I | AGLN250V5-VQG100I |

**Table 7 • Phase VI - Affected Part Numbers, shipment began April 22, 2013  
(Qualification Report PA-167)**

|                |                |                |
|----------------|----------------|----------------|
| APA075-FG144   | APA150-FG256A  | APA450-FG144I  |
| APA075-FGG144  | APA150-FGG256A | APA450-FGG144I |
| APA075-FG144I  | APA300-FG144   | APA450-FG144A  |
| APA075-FGG144I | APA300-FGG144  | APA450-FGG144A |
| APA075-FG144A  | APA300-FG144I  | APA450-FG256   |
| APA075-FGG144A | APA300-FGG144I | APA450-FGG256  |
| APA150-FG144   | APA300-FG144A  | APA450-FG256I  |
| APA150-FGG144  | APA300-FGG144A | APA450-FGG256I |
| APA150-FG144I  | APA300-FG256   | APA450-FG256A  |
| APA150-FGG144I | APA300-FGG256  | APA450-FGG256A |
| APA150-FG144A  | APA300-FG256I  | APA600-FG256   |
| APA150-FGG144A | APA300-FGG256I | APA600-FGG256  |
| APA150-FG256   | APA300-FG256A  | APA600-FG256I  |
| APA150-FGG256  | APA300-FGG256A | APA600-FGG256I |
| APA150-FG256I  | APA450-FG144   | APA600-FG256A  |
| APA150-FGG256I | APA450-FGG144  | APA600-FGG256A |

**Table 8 • Phase VII – Affected Part Numbers, shipment began April 22, 2013  
(Qualification Report PA-168)**

|                  |                   |                   |
|------------------|-------------------|-------------------|
| AGLN010V2-QNG48  | AGLN015V5-QNG68I  | AGLN030V2-ZQNG68  |
| AGLN010V2-QNG48I | AGLN020V2-QNG68   | AGLN030V2-ZQNG68I |
| AGLN010V5-QNG48  | AGLN020V2-QNG68I  | AGL030V5-QNG48    |
| AGLN010V5-QNG48I | AGLN020V5-QNG68   | AGL030V5-QNG48I   |
| AGL015V2-QNG68   | AGLN020V5-QNG68I  | AGL030V5-QNG68    |
| AGL015V2-QNG68I  | AGL030V2-QNG48    | AGL030V5-QNG68I   |
| AGLN015V2-QNG68  | AGL030V2-QNG48I   | AGLN030V5-ZQNG48  |
| AGLN015V2-QNG68I | AGL030V2-QNG68    | AGLN030V5-ZQNG48I |
| AGL015V5-QNG68   | AGL030V2-QNG68I   | AGLN030V5-ZQNG68  |
| AGL015V5-QNG68I  | AGLN030V2-ZQNG48  | AGLN030V5-ZQNG68I |
| AGLN015V5-QNG68  | AGLN030V2-ZQNG48I |                   |

**Table 9 • Phase VIII – Affected Part Numbers, shipment will begin (September 23, 2013)  
(Qualification Report PA-168)**

|                 |                 |                  |
|-----------------|-----------------|------------------|
| A3PN010-QNG48   | A3PN015-1QNG68I | A3P030-2QNG68    |
| A3PN010-1QNG48  | A3PN015-2QNG68I | A3P030-QNG68I    |
| A3PN010-2QNG48  | A3PN020-QNG68   | A3P030-1QNG68I   |
| A3PN010-QNG48I  | A3PN020-1QNG68  | A3P030-2QNG68I   |
| A3PN010-1QNG48I | A3PN020-2QNG68  | A3PN030-ZQNG48   |
| A3PN010-2QNG48I | A3PN020-QNG68I  | A3PN030-Z1QNG48  |
| A3P015-QNG68    | A3PN020-1QNG68I | A3PN030-Z2QNG48  |
| A3P015-1QNG68   | A3PN020-2QNG68I | A3PN030-ZQNG48I  |
| A3P015-2QNG68   | A3P030-QNG48    | A3PN030-Z1QNG48I |
| A3P015-QNG68I   | A3P030-1QNG48   | A3PN030-Z2QNG48I |
| A3P015-1QNG68I  | A3P030-2QNG48   | A3PN030-ZQNG68   |
| A3P015-2QNG68I  | A3P030-QNG48I   | A3PN030-Z1QNG68  |
| A3PN015-QNG68   | A3P030-1QNG48I  | A3PN030-Z2QNG68  |
| A3PN015-1QNG68  | A3P030-2QNG48I  | A3PN030-ZQNG68I  |
| A3PN015-2QNG68  | A3P030-QNG68    | A3PN030-Z1QNG68I |
| A3PN015-QNG68I  | A3P030-1QNG68   | A3PN030-Z2QNG68I |

**Table 10 • Phase IX – Affected Part Numbers, shipment will begin (June 15, 2014)  
(Qualification Report PA-166, available by March 30, 2014)**

|                    |                    |                   |
|--------------------|--------------------|-------------------|
| AGL030V2-VQ100     | AGLN030V5-ZVQG100  | A3PN030-Z1VQ100   |
| AGL030V2-VQ100I    | AGLN030V5-ZVQG100I | A3PN030-Z1VQ100I  |
| AGL030V2-VQG100    | A3P030-1VQ100      | A3PN030-Z1VQG100  |
| AGL030V2-VQG100I   | A3P030-1VQ100I     | A3PN030-Z1VQG100I |
| AGL030V5-VQ100     | A3P030-1VQG100     | A3PN030-Z2VQ100   |
| AGL030V5-VQ100I    | A3P030-1VQG100I    | A3PN030-Z2VQ100I  |
| AGL030V5-VQG100    | A3P030-2VQ100      | A3PN030-Z2VQG100  |
| AGL030V5-VQG100I   | A3P030-2VQ100I     | A3PN030-Z2VQG100I |
| AGLN030V2-ZVQ100   | A3P030-2VQG100     | A3PN030-ZVQ100    |
| AGLN030V2-ZVQ100I  | A3P030-2VQG100I    | A3PN030-ZVQ100I   |
| AGLN030V2-ZVQG100  | A3P030-VQ100       | A3PN030-ZVQG100   |
| AGLN030V2-ZVQG100I | A3P030-VQ100I      | A3PN030-ZVQG100I  |
| AGLN030V5-ZVQ100   | A3P030-VQG100      |                   |
| AGLN030V5-ZVQ100I  | A3P030-VQG100I     |                   |

**Summary of Changes:**

1. Added to Table 1, the schedule of the following devices:
  - a. A3P030/A3PN030 and the smaller device ProASIC3/Nano in QNG68/QNG48
  - b. ProASIC<sup>Plus</sup> in PQ208/PQG208
2. Removed from Table 1, are the ProASIC3 devices (larger than A3P250) in PQ208/PQG208. The qualification of this device with the PCC wire has been postponed.
3. Updated the subsequent tables based on the changes made to Table 1.

**Summary of Changes in Amendment D:**

1. Added in Table 1, the schedule of devices AGL030/A3P030 in VQ100/VQG100
2. Removed ProASIC<sup>Plus</sup> in PQ208/PQG208 from Table 1. The qualification of this device family with PCC wire in PQ208/PQG208 has been postponed.
3. Updated the subsequent tables based on the changes made in Table 1.

Microsemi Corporation, One Enterprise, Aliso Viejo, CA 92656 - [www.microsemi.com](http://www.microsemi.com)

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