

## PCN20008: Conversion to Cu Wire for SmartFusion, IGLOO2, and SmartFusion2

April 29, 2020

### Description

Microsemi SoC group is currently performing qualification runs to convert SmartFusion in FG/FGG256 and IGLOO2/SmartFusion2 devices in TQ/TQG144 from Au wire to Gold Coated Palladium Copper wire (AuPdCu, also known as AuPCC).

Qualification run is in-process. Expected completion is on or before June 15, 2020.

There is no change in assembly site location. SmartFusion devices in FG/FGG256 will remain at UTAC in Dongguan China. IGLOO2/SmartFusion2 devices in TQ/TQG144 assembly support will remain at Amkor Philippines.

### Reason for Change

Conversion to AuPdCu (AuPCC) wire is aligned with the current industry trend. Our assembly vendors have extensive experience in copper bond wire assembly. There is no expected impact in product moisture sensitivity level (MSL), product functionality, performance, quality, or reliability.

Products assembled with copper wire only use halogen-free materials.

### Application Impact

There is no change in form, fit, function, quality, or reliability of the devices.

### Part Numbers Affected

| SmartFusion        | SmartFusion2     |                  | IGLOO2            |                   |
|--------------------|------------------|------------------|-------------------|-------------------|
| A2F200M3F-1FG256   | M2S005-1TQG144   | M2S010-1TQG144   | M2GL005-1TQG144   | M2GL010-1TQG144   |
| A2F200M3F-1FG256I  | M2S005-1TQG144I  | M2S010-1TQG144I  | M2GL005-1TQG144I  | M2GL010-1TQG144I  |
| A2F200M3F-1FGG256  | M2S005S-1TQG144  | M2S010S-1TQG144  | M2GL005S-1TQG144  | M2GL010S-1TQG144  |
| A2F200M3F-1FGG256I | M2S005S-1TQG144I | M2S010S-1TQG144I | M2GL005S-1TQG144I | M2GL010S-1TQG144I |
| A2F200M3F-FG256    | M2S005S-TQG144   | M2S010S-TQG144   | M2GL005S-TQG144   | M2GL010S-TQG144   |
| A2F200M3F-FG256I   | M2S005S-TQG144I  | M2S010S-TQG144I  | M2GL005S-TQG144I  | M2GL010S-TQG144I  |
| A2F200M3F-FGG256   | M2S005-TQG144    | M2S010-TQG144    | M2GL005-TQG144    | M2GL010-TQG144    |
| A2F200M3F-FGG256I  | M2S005-TQG144I   | M2S010-TQG144I   | M2GL005-TQG144I   | M2GL010-TQG144I   |

### Production Shipment Schedule

Microsemi may begin shipping parts by June 30, 2020.

Microsemi reserves the right to continue the shipment of devices with Au wire following the change of implementation date.

Customers may receive a mix of pre-conversion products with Au wire and products with AuPdCu (AuPCC) wire interchangeably, following the change of implementation date.

**Qualification Data**

Qualification report is expected to be available by June 15, 2020.

**Contact Information**

If you have any questions about this subject, contact Microsemi Technical Support department by using the support portal at <https://soc.microsemi.com/Portal/Default.aspx>.

**Regards,**

Microsemi Corporation

Any projected dates in this PCN are based on the most current product information at the time this PCN is being issued, but they may change due to unforeseen circumstances. For the latest schedule and any other information, please contact your local Microsemi Sales Office, the factory contact shown above, or your local distributor.

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