



**Microsemi Corporation**

January 30, 2014

**Customer Notification No: CN1403**

**Subject:** STPL file for customers observing high temperature offset with calibration IP for Fusion® AFS600 and AFS1500

Dear Customer,

During production testing of specific wafer lot and date codes for AFS600 and AFS1500 product, the calibration value for the external temperature monitor channel's offset was incorrectly specified. If all of the following three statements are true for your application, a STPL file can be requested to correct this issue.

1. Have received AFS600 and AFS1500 product with wafer lot and date codes listed in Table 1 and 2
2. Application uses the external temperature monitor feature with Calibration IP "enabled"
3. Observing high positive temperature offset in the range of +6C to +22C

If any of the three statements mentioned above are not applicable, no action is required.

**Contact Information:** Microsemi SoC Products Group

For STPL file or clarifications or questions, please contact Microsemi SoC Technical Support.

Technical Support

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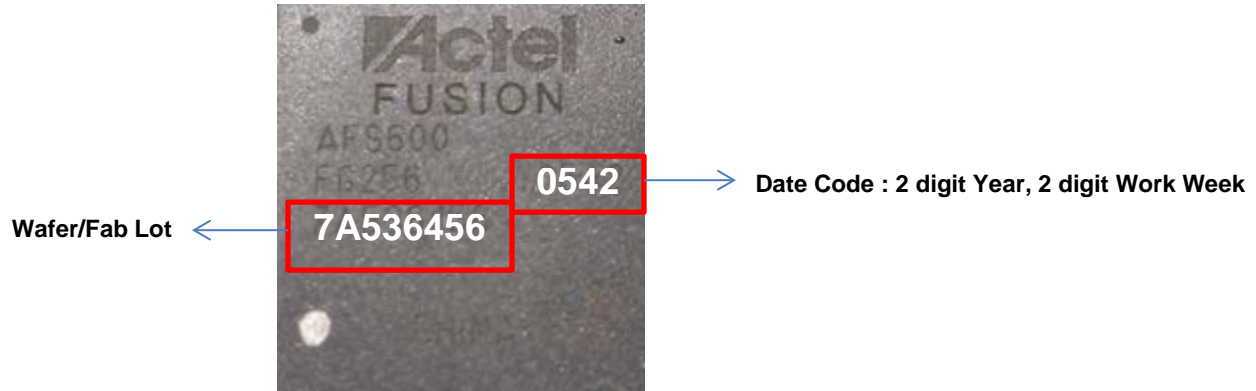
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Regards,

Microsemi Corporation

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## Device Marking



**Table 1: AFS1500 Affected Lot Numbers**

| Device          | Wafer/Fab Lot | Date Code        |
|-----------------|---------------|------------------|
| AFS1500-FG256   | ZA939103      | 1331             |
| AFS1500-FG256   | ZA927127      | 1032             |
| AFS1500-FG484   | ZA930016      | 1015             |
| AFS1500-FG484   | ZA927217      | 1204, 1229       |
| AFS1500-FG676   | ZA927126      | 1235             |
| AFS1500-FGG256  | ZA938113      | 1317             |
| AFS1500-FGG256  | ZA939103      | 1211             |
| AFS1500-FGG256  | ZA933094      | 1140             |
| AFS1500-FGG256  | ZA933094      | 1140             |
| AFS1500-FGG256  | ZA929219      | 1342             |
| AFS1500-FGG256  | ZA929218      | 1044             |
| AFS1500-FGG484  | ZA915053      | 0920             |
| AFS1500-FGG484  | ZA927127      | 1031             |
| AFS1500-FGG484  | ZA938114      | 1347             |
| AFS1500-FGG484  | ZA915053      | 0926             |
| AFS1500-FGG484  | ZA929124      | 1040             |
| AFS1500-FGG484  | ZA939104      | 1229, 1234, 1237 |
| AFS1500-FGG484  | ZA915053      | 1005, 1008, 1030 |
| AFS1500-FGG484  | ZA919086      | 1023             |
| AFS1500-FGG484  | ZA927127      | 1037             |
| AFS1500-FGG484  | ZA939103      | 1209             |
| AFS1500-FGG676  | ZA927126      | 1235             |
| M1AFS1500-FG256 | ZA933095      | 1104             |

**Table 1: AFS1500 Affected Lot Numbers (Contd.)**

| Device           | Wafer/Fab Lot | Date Code          |
|------------------|---------------|--------------------|
| M1AFS1500-FG256  | ZA938112      | 1248               |
| M1AFS1500-FG484  | ZA938113      | 1339 , 1345        |
| M1AFS1500-FG484  | ZA923120      | 1049               |
| M1AFS1500-FGG256 | ZA927217      | 1229               |
| M1AFS1500-FGG256 | ZA927126      | 1031               |
| M1AFS1500-FGG256 | ZA927216      | 1148               |
| M1AFS1500-FGG256 | ZA927216      | 1032               |
| M1AFS1500-FGG256 | ZA929219      | 1132               |
| M1AFS1500-FGG256 | ZA930017      | 1008, 1012         |
| M1AFS1500-FGG256 | ZA938231      | 1139 , 1148        |
| M1AFS1500-FGG256 | ZA938113      | 1334               |
| M1AFS1500-FGG256 | ZA927126      | 1233 , 1250 , 1339 |
| M1AFS1500-FGG256 | ZA938114      | 1337               |
| M1AFS1500-FGG256 | ZA927216      | 1148               |
| M1AFS1500-FGG484 | ZA929219      | 1132               |
| M1AFS1500-FGG484 | ZA919086      | 1011               |
| M1AFS1500-FGG484 | ZA938231      | 1148, 1212         |
| M1AFS1500-FGG484 | ZA938112      | 1242, 1248, 1313   |
| P1AFS1500-FGG484 | ZA927323      | 1037               |
| P1AFS1500-FGG484 | ZA930017      | 1016               |
| P1AFS1500-FGG484 | ZA927216      | 1127, 1204         |
| P1AFS1500-FGG484 | ZA927216      | 1145               |

**Table 2: AFS600 Affected Lot Numbers**

| Device       | Wafer/Fab Lot | Date Code        |
|--------------|---------------|------------------|
| AFS600-FG256 | ZA029002      | 1118, 1121       |
| AFS600-FG256 | ZA126027      | 1137, 1146       |
| AFS600-FG256 | ZA130003      | 1204             |
| AFS600-FG256 | ZA131002      | 1214             |
| AFS600-FG256 | ZA212036      | 1223, 1227, 1233 |
| AFS600-FG256 | ZA216309      | 1230             |
| AFS600-FG256 | ZA216310      | 1229             |
| AFS600-FG256 | ZA218013      | 1227, 1229       |
| AFS600-FG256 | ZA218014      | 1232             |
| AFS600-FG256 | ZA236209      | 1247, 1307       |
| AFS600-FG256 | ZA242124      | 1243, 1246       |
| AFS600-FG256 | ZA244103      | 1334, 1347, 1335 |
| AFS600-FG256 | ZA304242      | 1351             |
| AFS600-FG256 | ZA304243      | 1350, 1337       |
| AFS600-FG256 | ZA818010      | 0831             |
| AFS600-FG256 | ZA821164      | 0831             |
| AFS600-FG256 | ZA821165      | 0825             |
| AFS600-FG256 | ZA827044      | 0842             |
| AFS600-FG256 | ZA833211      | 0925             |
| AFS600-FG256 | ZA836205      | 0922             |
| AFS600-FG256 | ZA844043      | 0935             |
| AFS600-FG256 | ZA931010      | 0937, 0948       |
| AFS600-FG256 | ZA931011      | 1005             |
| AFS600-FG256 | ZA934242      | 1109             |
| AFS600-FG256 | ZA934243      | 1013, 1016       |
| AFS600-FG256 | ZA934243Z     | 1130             |
| AFS600-FG256 | ZA939055      | 1102             |
| AFS600-FG256 | ZA939056      | 1019             |
| AFS600-FG256 | ZA941067      | 1032             |
| AFS600-FG256 | ZA941069      | 1029             |
| AFS600-FG256 | ZA947089      | 1032             |
| AFS600-FG256 | ZA947090      | 1047, 1049       |
| AFS600-FG256 | ZA947091      | 1130, 1133       |
| AFS600-FG484 | ZA216310      | 1229             |
| AFS600-FG484 | ZA744086      | 1202             |

**Table 2: AFS600 Affected Lot Numbers (Contd.)**

| Device        | Wafer/Fab Lot | Date Code              |
|---------------|---------------|------------------------|
| AFS600-FG484  | ZA833211      | 0917                   |
| AFS600-FG484  | ZA836205      | 0928                   |
| AFS600-FG484  | ZA932055      | 1008                   |
| AFS600-FG484  | ZA947091      | 1349                   |
| AFS600-FGG256 | ZA126027      | 1132                   |
| AFS600-FGG256 | ZA128001      | 1206                   |
| AFS600-FGG256 | ZA129018      | 1209, 1212             |
| AFS600-FGG256 | ZA130003      | 1203, 1205             |
| AFS600-FGG256 | ZA131002      | 1212, 1216             |
| AFS600-FGG256 | ZA216309      | 1221                   |
| AFS600-FGG256 | ZA216310      | 1233                   |
| AFS600-FGG256 | ZA218014      | 1227, 1230, 1322       |
| AFS600-FGG256 | ZA236209      | 1251, 1313, 1319       |
| AFS600-FGG256 | ZA242124      | 1242                   |
| AFS600-FGG256 | ZA242125      | 1240                   |
| AFS600-FGG256 | ZA244102      | 1303, 1307, 1315, 1318 |
| AFS600-FGG256 | ZA244103      | 1325                   |
| AFS600-FGG256 | ZA304242      | 1350                   |
| AFS600-FGG256 | ZA304243      | 1331 , 1335            |
| AFS600-FGG256 | ZA827044      | 0837                   |
| AFS600-FGG256 | ZA831098      | 0846                   |
| AFS600-FGG256 | ZA833211      | 0918                   |
| AFS600-FGG256 | ZA839067      | 0935, 0941, 0944, 0946 |
| AFS600-FGG256 | ZA844043      | 0938                   |
| AFS600-FGG256 | ZA848102      | 0932, 0935             |
| AFS600-FGG256 | ZA931010      | 0949, 0952             |
| AFS600-FGG256 | ZA931011      | 1009                   |
| AFS600-FGG256 | ZA932055      | 1004, 1009             |
| AFS600-FGG256 | ZA934242      | 1103, 1108             |
| AFS600-FGG256 | ZA934243      | 1010                   |
| AFS600-FGG256 | ZA939055      | 1147                   |
| AFS600-FGG256 | ZA939056      | 1025, 1212, 1347, 1019 |
| AFS600-FGG256 | ZA941067      | 1019, 1021, 1037       |
| AFS600-FGG256 | ZA941068      | 1024                   |
| AFS600-FGG256 | ZA941069      | 1044                   |

**Table 2: AFS600 Affected Lot Numbers (Contd.)**

| Device          | Wafer/Fab Lot | Date Code                    |
|-----------------|---------------|------------------------------|
| AFS600-FGG256   | ZA947089      | 1022, 1026                   |
| AFS600-FGG484   | ZA128001      | 1207                         |
| AFS600-FGG484   | ZA236209      | 1308, 1308                   |
| AFS600-FGG484   | ZA304243      | 1323                         |
| AFS600-FGG484   | ZA802062      | 0820                         |
| AFS600-FGG484   | ZA821164      | 0846                         |
| AFS600-FGG484   | ZA836205      | 0935                         |
| AFS600-FGG484   | ZA844043      | 0922                         |
| AFS600-FGG484   | ZA947091      | 1023, 1031, 1308             |
| AFS600-PQ208    | ZA216310      | 1224                         |
| AFS600-PQ208    | ZA802062      | 0919                         |
| AFS600-PQ208    | ZA947091      | 1012, 1106                   |
| AFS600-PQG208   | ZA128001      | 1207                         |
| AFS600-PQG208   | ZA131002      | 1210                         |
| AFS600-PQG208   | ZA833211      | 0952                         |
| AFS600-PQG208   | ZA836205      | 0952                         |
| AFS600-PQG208   | ZA844043      | 0940                         |
| AFS600-PQG208   | ZA947091      | 1033, 1048, 1104, 1119, 1146 |
| M1AFS600-FGG256 | ZA831098      | 0843                         |
| M1AFS600-FGG484 | ZA833211      | 0911, 0915                   |
| M1AFS600-FGG484 | ZA836205      | 0931                         |
| M1AFS600-FGG484 | ZA947091      | 1031                         |
| M1AFS600-PQ208  | ZA216310      | 1224                         |
| M1AFS600-PQ208  | ZA818010      | 0836                         |
| M1AFS600-PQ208  | ZA821165      | 0828                         |
| M1AFS600-PQ208  | ZA836205      | 0937                         |
| M1AFS600-PQG208 | ZA827044      | 0841                         |
| M1AFS600-PQG208 | ZA836205      | 0934                         |
| M1AFS600-PQG208 | ZA848102      | 0918                         |
| M1AFS600-PQG208 | ZA931011      | 1012                         |
| P1AFS600-FG256  | ZA216309      | 1230                         |
| P1AFS600-FG256  | ZA236209      | 1307                         |
| P1AFS600-FG484  | ZA744086      | 0807                         |
| P1AFS600-FG484  | ZA831098      | 0840                         |
| P1AFS600-FGG256 | ZA216309      | 1221                         |

**Table 2: AFS600 Affected Lot Numbers (Contd.)**

| Device          | Wafer/Fab Lot | Date Code |
|-----------------|---------------|-----------|
| P1AFS600-FGG256 | ZA813032      | 1042      |
| P1AFS600-FGG256 | ZA848102      | 0926      |
| U1AFS600-FG256  | ZA821164      | 0829      |
| U1AFS600-FG256  | ZA941068      | 1121      |
| U1AFS600-FG256  | ZA947089      | 1032      |
| U1AFS600-FG256  | ZA947090      | 1048      |
| U1AFS600-FG256  | ZA947091      | 1130      |
| U1AFS600-FGG256 | ZA130003      | 1205      |
| U1AFS600-FGG256 | ZA236209      | 1251      |