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PRODUCT ERRATA NOTIFICATION

PEN: PEN165202

Date: January 02, 2017

Subject: Main OSC - Clock Supervisor (CSV) Limitation on 32-bit MB91460 Series MCU

To: JAMIE PEDERSON
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Distribution of Errata:

This errata notice is released to inform customers of an issue in the MB91460 series of microcontrollers (MCUs). Internal clock to CPU core can stop when operating in low power mode and at low temperatures. Please refer to the table in the “Affected Part Numbers” section to assess if your application is affected by this errata notice.

For more technical details refer to attached Customer Information (CI) version 1.0.

Benefit of Change:

Part screening will prevent failures in the field.

Affected Part Numbers: 167

Refer to the attached ‘Affected Parts List’ file for the list of all affected parts. The table below lists all MB91460 sub series. Any part number starting with a string given in the table below is affected by the limitation.

Part Number Series	Part Number Series	Part Number Series
MB91F463N	MB91F465X	MB91F467P
MB91F464A	MB91F466H	MB91F467R
MB91F465B	MB91F467B	MB91F467S
MB91F465C	MB91F467C	MB91F467T
MB91F465D	MB91F467D	MB91F469G
MB91F465K	MB91F467E	MB91F469Q
MB91F465P	MB91F467M	MB91F469T

Approximate Implementation Date:

Cypress plans to remove parts not meeting the specification of the data sheet by a part screening process applied to all parts shipped. For MB91F467S series, the screening process will become effective from Jan 2nd, 2017 onwards.

Anticipated Impact:

Clock Supervisor (CSV) may issue a reset because the main clock for the CPU core stopped. This behavior can be observed when MCU is in low power mode operating at internal core supply voltage lower than 1.6V and at low temperatures (e.g. -25°C), When the limitation occurs, the microcontroller switches to RC-clock. This state can only be left by a power off/on sequence.

Method of Identification:

Not applicable as no new part numbers are planned.

Cypress maintains traceability of product to wafer level, including wafer fabrication location, through the lot number marked on the package.

Response Required:

This is an information only announcement. No response is required.

For additional information regarding this change, contact your local sales representative or contact the PCN Administrator at pcn_adm@cypress.com.

Sincerely,

Cypress PCN Administration

Item	Marketing Part Number
1	MB91F463CAPMC-GSE2
2	MB91F463CAPMC-GSK5E2
3	MB91F463NAPMC-GS-P01E1
4	MB91F463NAPMC-GS-P01N2E1
5	MB91F463NAPMC-GSE1
6	MB91F463NCPMC-GS-P02E1
7	MB91F463NCPMC-GS-P02N2E1
8	MB91F463NCPMC-GSE1
9	MB91F464AA-GS-DCM
10	MB91F464AAPMC-GSE2
11	MB91F464AAPMCR-GS-N2E2
12	MB91F464AAPMCR-GSE2
13	MB91F464ABPMCR-GSE2
14	MB91F465BBPMC-GS-N2E2
15	MB91F465BBPMC-GS-N2K5E2
16	MB91F465BBPMC-GSE2
17	MB91F465BBPMC-GSK5E2
18	MB91F465CAPMC-GS-N2E2
19	MB91F465CAPMC-GSE2
20	MB91F465CAPMC-GSK5E2
21	MB91F465DAPFVS-GSE1
22	MB91F465DAPFVS-GSE2
23	MB91F465KBPMT-GS-N2E2
24	MB91F465KBPMT-GSE2
25	MB91F465PAPMC-GS-N2E2
26	MB91F465PAPMC-GSE1
27	MB91F465PAPMC-GSE2
28	MB91F465PAPMC-GSK5E2
29	MB91F465XAPMC-GE1
30	MB91F466HAPMC-GS-N2E2
31	MB91F466HAPMC-GSE2
32	MB91F466HAPMC-GSK5E2
33	MB91F467BAPMC-GS-N2E2
34	MB91F467BAPMC-GS-N2K5E2
35	MB91F467BAPMC-GSE2
36	MB91F467BAPMC-GSE2-W001
37	MB91F467BAPMC-GSE2-W002
38	MB91F467BAPMC-GSE2-W003
39	MB91F467BAPMC-GSE2-W004
40	MB91F467BAPMC-GSE2-W005
41	MB91F467BAPMC-GSE2-W006
42	MB91F467BAPMC-GSE2-W007
43	MB91F467BAPMC-GSE2-W008
44	MB91F467BAPMC-GSE2-W009
45	MB91F467BAPMC-GSE2-W010
46	MB91F467BAPMC-GSE2-W011

47	MB91F467BAPMC-GSE2-W012
48	MB91F467BAPMC-GSE2-W013
49	MB91F467BAPMC-GSE2-W014
50	MB91F467BAPMC-GSE2-W015
51	MB91F467BAPMC-GSE2-W016
52	MB91F467BAPMC-GSE2-W017
53	MB91F467BAPMC-GSE2-W018
54	MB91F467BAPMC-GSE2-W019
55	MB91F467BAPMC-GSE2-W020
56	MB91F467BAPMC-GSE2-W021
57	MB91F467BAPMC-GSE2-W022
58	MB91F467BAPMC-GSE2-W023
59	MB91F467BAPMC-GSK5E2
60	MB91F467CB-GS-DCM
61	MB91F467CBPMCR-GS-N2E2
62	MB91F467CBPMCR-GSE2
63	MB91F467CBPMCR-GSK5E2
64	MB91F467DA-GS-DCM
65	MB91F467DAPFVS-GS-N2E2
66	MB91F467DAPFVS-GS-N2K5E2
67	MB91F467DAPFVS-GSE2
68	MB91F467DAPFVS-GSK5E2
69	MB91F467DAPVSR-ESE2
70	MB91F467DAPVSR-GS-N2E2
71	MB91F467DAPVSR-GS-N2K5E2
72	MB91F467DAPVSR-GSE2
73	MB91F467DAPVSR-GSK5E2
74	MB91F467DB-GS-DCM
75	MB91F467DBPFVS-GS-N2E2
76	MB91F467DBPFVS-GSE2
77	MB91F467DBPFVS-GSK5E2
78	MB91F467DBPVSR-ESE2
79	MB91F467DBPVSR-GS-N2E2
80	MB91F467DBPVSR-GS-N2K5E2
81	MB91F467DBPVSR-GSE2
82	MB91F467DBPVSR-GSK5E2
83	MB91F467EAPMC-GS-N2E2
84	MB91F467EAPMC-GS-N2K5E2
85	MB91F467EAPMC-GSE2
86	MB91F467EAPMC-GSK5E2
87	MB91F467MAPMC-GSE1
88	MB91F467MAPMC-GSE2
89	MB91F467MAPMC-GSK5E1
90	MB91F467PAPMC-GE2
91	MB91F467PAPMC-GS-N2E2
92	MB91F467PAPMC-GSE2
93	MB91F467PAPMC-GSK5E2

94	MB91F467RAPMC-GE1
95	MB91F467RAPMC-GK5E1
96	MB91F467RCPMC-GE1
97	MB91F467RCPMCR-GE1
98	MB91F467RDPMC-GS-N2E2
99	MB91F467RDPMC-GS-N2K5E2
100	MB91F467RDPMC-GSE2
101	MB91F467RDPMC-GSK5E2
102	MB91F467SA-GS-DCM
103	MB91F467SAPMC-C0010
104	MB91F467SAPMC-C0011
105	MB91F467SAPMC-C0012
106	MB91F467SAPMC-C0015
107	MB91F467SAPMC-C0016
108	MB91F467SAPMC-C0017
109	MB91F467SAPMC-C0020
110	MB91F467SAPMC-C0022
111	MB91F467SAPMC-C0023
112	MB91F467SAPMC-C0028
113	MB91F467SAPMC-C0029
114	MB91F467SAPMC-C0030
115	MB91F467SAPMC-C0031
116	MB91F467SAPMC-C0032
117	MB91F467SAPMC-C0039
118	MB91F467SAPMC-C0040
119	MB91F467SAPMC-C0041
120	MB91F467SAPMC-C0042
121	MB91F467SAPMC-C0043
122	MB91F467SAPMC-C0044
123	MB91F467SAPMC-C0045
124	MB91F467SAPMC-C0046
125	MB91F467SAPMC-C0050
126	MB91F467SAPMC-C0055
127	MB91F467SAPMC-C0056
128	MB91F467SAPMC-C0057
129	MB91F467SAPMC-GS-D2E2
130	MB91F467SAPMC-GS-N2E2
131	MB91F467SAPMC-GS-N2K5E2
132	MB91F467SAPMC-GSE2
133	MB91F467SAPMC-GSK5E2
134	MB91F467TAPMC-ESE2
135	MB91F467TAPMC-GS-N2E2
136	MB91F467TAPMC-GSE2
137	MB91F467TAPMC-GSE2-ER-W1
138	MB91F467TAPMC-GSE2-ER-W2
139	MB91F467TAPMC-GSE2-ER-W3
140	MB91F467TAPMC-GSE2-ER-W4

141	MB91F467TAPMC-GSK5E2
142	MB91F469GAPB-GS
143	MB91F469GAPB-GS-K6E1
144	MB91F469GAPB-GS-N2
145	MB91F469GAPB-GSER-270570
146	MB91F469GAPB-GSER-270573
147	MB91F469GAPB-GSER-270574
148	MB91F469GAPB-GSER-270575
149	MB91F469GB-GS-DCM
150	MB91F469GBP-B-GS
151	MB91F469GBP-B-GS-K6E1
152	MB91F469GBP-B-GS-N2
153	MB91F469GBP-B-GS-N2E1
154	MB91F469GBP-B-GS-N2K6E1
155	MB91F469GBP-B-GSE1
156	MB91F469GBP-B-GSER-270570
157	MB91F469GBP-B-GSER-270571
158	MB91F469GBP-B-GSER-270572
159	MB91F469GBP-B-GSER-270573
160	MB91F469GBP-B-GSER-270574
161	MB91F469GBP-B-GSER-270575
162	MB91F469GBP-B-GSK6E1
163	MB91F469QAHPB-GS-N2E1
164	MB91F469QAHPB-GSE1
165	MB91F469QAHPB-GSK6E1
166	MB91F469QAPB-GSE1
167	MB91F469QAPB-GSK6E1