



Cypress Semiconductor Corporation, 198 Champion Court, San Jose, CA 95134. Tel: (408) 943-2600

## PRODUCT TERMINATION NOTIFICATION

**PTN:** PTN185104

**Date:** December 23, 2018

**Subject:** January 2019 Product Obsolescence Notification

### **Product Obsolescence Information:**

Cypress announces the obsolescence of select products from its portfolio resulting from an internal review and business decision to discontinue support. The affected part numbers are listed in the attached file. Last Time Buy (LTB) and Last Time Ship (LTS) dates are provided for each product. The LTB date denotes the last day on which orders will be accepted; these orders may be scheduled for shipment through the LTS date provided. In the case of an immediate shutdown, there will be no last time buy and file will indicate "None"; however, a last time ship will still be provided to take care of any remaining backlog that Cypress has committed to ship.

Note 1: Parts in attached list identified with a "Note 1" were formerly pruned by Fujitsu or Spansion prior to merger with Cypress in 2015. Parts remained open for final orders by customers and are now being closed upon receipt of this notification. Current backlog will be supported, or customers will be individually notified by Cypress representatives.

The part listed as the "Drop-In Replacement Part" will perform the same task but with improved or revised technology. The part listed as the "Next Best Alternative Part" is the recommended replacement that may have some features or functions that are different and may require board re-design.

### **Part Numbers Affected:** 361

Please see the attached file for a list of part numbers, Last Time Buy Dates and Last Time Ship Dates.

### **Approximate Implementation Date:**

This change is effective with this notification. See attached listing for specified Last Time Buy and Last Time Ship dates by device.

### **Response Required:**

No response required.

For additional information regarding this notice, contact the personnel listed in the table below, your local sales representative, or the PCN Administrator at [pcn\\_adm@cypress.com](mailto:pcn_adm@cypress.com).

Contact	Country	Phone Number	Email	Family of Parts
Hideki Hosoda	Japan	+81-44-920-8233	hhos@cypress.com	Capsense Plus, PSoC, MCU
Sai Dhanraj	US	1-408-545-9588	sapd@cypress.com	NAND; Parallel NOR FLASH
Ajit Uppur Kukkilaya	US	1-408-456-1872	ajit@cypress.com	USB, CCG, Phys
John DaCosta	US	1-408-545-9886	jdjd@cypress.com	Wireless, IoT
P. K. Sidharth	US	1-719-481-7058	ksi@cypress.com	SRAM, FRAM, Clocks
Tsukasa Tatsumi	Japan	+81-44-920-8193	ttat@cypress.com	Auto MCU
Jing Mu	US	1-408-943-2618	jhmu@cypress.com	Auto PSoC

Sincerely,

Cypress PCN Administration

Item	Marketing Part Number	LTB	LTS	Drop In Replacement	Next Best Alternative
1	2364417	2-Oct-19	29-Jun-20		
2	115-1207-000	2-Oct-19	29-Jun-20		CY2305SXI-1HT
3	28152175 A	2-Oct-19	29-Jun-20	S29CD032J0MQFM013	
4	28298080 A	2-Oct-19	29-Jun-20	S25FL064LABMFI013	
5	363531-0010 00	2-Oct-19	29-Jun-20	S29AL016J70TFI023	
6	BCM920737_LE_KIT	3-Apr-19	1-Jul-19		
7	BCM9WICED_SENSE	3-Apr-19	1-Jul-19		
8	CY14MB064J2A-SXI	3-Jul-19	30-Dec-19		FM24CL64B-G
9	CY14MB064J2A-SXIT	3-Jul-19	30-Dec-19		FM24CL64B-GTR
10	CY14MB064Q2B-SXI	3-Jul-19	30-Dec-19		FM25CL64B-G
11	CY14MB064Q2B-SXIT	3-Jul-19	30-Dec-19		FM25CL64B-GTR
12	CY14ME064J2A-SXI	3-Jul-19	30-Dec-19		FM24C64B-G
13	CY14ME064J2A-SXIT	3-Jul-19	30-Dec-19		FM24C64B-GTR
14	CY2305CSXA-1H	2-Oct-19	29-Jun-20		CY2305SXI-1H
15	CY2305CSXA-1HT	2-Oct-19	29-Jun-20		CY2305SXI-1HT
16	CY24292LFXC	3-Jul-19	30-Dec-19		
17	CY24292LFXCT	3-Jul-19	30-Dec-19		
18	CY24292LFXI	2-Oct-19	28-Oct-20		
19	CY24292LFXIT	3-Jul-19	30-Dec-19		
20	CY24293ZXC	2-Oct-19	28-Oct-20		
21	CY24293ZXCT	2-Oct-19	28-Oct-20		
22	CY24293ZXI	3-Jul-19	30-Dec-19		
23	CY24293ZXIT	3-Jul-19	30-Dec-19		
24	CY25823ZXC	3-Jul-19	30-Dec-19		
25	CY25823ZXCT	3-Jul-19	30-Dec-19		
26	CY2DL1504ZXC	3-Jul-19	30-Dec-19		
27	CY2DL1504ZXCT	3-Jul-19	30-Dec-19		
28	CY2DL1504ZXI	3-Jul-19	30-Dec-19		
29	CY2DL1504ZXIT	3-Jul-19	30-Dec-19		
30	CY2DL1510AZC	3-Jul-19	30-Dec-19		
31	CY2DL1510AZCT	3-Jul-19	30-Dec-19		
32	CY2DL1510AZI	3-Jul-19	30-Dec-19		
33	CY2DL1510AZIT	3-Jul-19	30-Dec-19		
34	CY2DM1502ZXI	3-Jul-19	30-Dec-19		
35	CY2DM1502ZXIT	3-Jul-19	30-Dec-19		
36	CY2DP1502SXI	3-Jul-19	30-Dec-19		
37	CY2DP1502SXIT	3-Jul-19	30-Dec-19		
38	CY2DP1502ZXI	3-Jul-19	30-Dec-19		
39	CY2DP1502ZXIT	3-Jul-19	30-Dec-19		
40	CY2DP1504ZXC	3-Jul-19	30-Dec-19		
41	CY2DP1504ZXCT	3-Jul-19	30-Dec-19		
42	CY2DP1504ZXI	3-Jul-19	30-Dec-19		
43	CY2DP1504ZXIT	3-Jul-19	30-Dec-19		
44	CY2X0137FLXCT	3-Jul-19	30-Dec-19		CY29411FLXIT
45	CY2X0137FLXIT	3-Jul-19	30-Dec-19		CY29411FLXIT
46	CY2X013FLXIT	3-Jul-19	30-Dec-19		CY29421FLXIT

47	CY2X0147FLXCT	3-Jul-19	30-Dec-19		CY29411FLXIT
48	CY2X0147FLXIT	3-Jul-19	30-Dec-19		CY29411FLXIT
49	CY2X014FLXIT	3-Jul-19	30-Dec-19		CY29421FLXIT
50	CY2X014LXC100T	3-Jul-19	30-Dec-19		CY29421FLXIT
51	CY2X014LXI011T	3-Jul-19	30-Dec-19		CY29421FLXIT
52	CY2XF24LXI009T	3-Jul-19	30-Dec-19		CY29421FLXIT
53	CY2XF327FLXCT	3-Jul-19	30-Dec-19		CY29411FLXIT
54	CY2XF327FLXIT	3-Jul-19	30-Dec-19		CY29411FLXIT
55	CY2XF32FLXIT	3-Jul-19	30-Dec-19		CY29421FLXIT
56	CY2XF33FLXIT	3-Jul-19	30-Dec-19		CY29421FLXIT
57	CY2XF33LXC533T	3-Jul-19	30-Dec-19		CY29421FLXIT
58	CY2XF33LXI701T	3-Jul-19	30-Dec-19		CY29421FLXIT
59	CY3280-20X66	3-Apr-19	1-Jul-19		
60	CY3280-22X45	3-Apr-19	1-Jul-19		
61	CY3280-BK1	3-Apr-19	1-Jul-19		
62	CY3280-BMM	3-Apr-19	1-Jul-19		
63	CY3280-MBR	3-Apr-19	1-Jul-19		
64	CY3280-SLM	3-Apr-19	1-Jul-19		
65	CY3280-SRM	3-Apr-19	1-Jul-19		
66	CY3668	3-Apr-19	1-Jul-19		
67	CY5674	3-Apr-19	1-Jul-19		
68	CY5676	3-Apr-19	1-Jul-19		
69	CY5676A	3-Apr-19	1-Jul-19		
70	CY62127DV30LL-55BVXI	3-Jul-19	30-Dec-19		
71	CY62127DV30LL-55BVXIT	3-Jul-19	30-Dec-19		
72	CY621282BNLL-70SXE	2-Oct-19	29-Jun-20		CY62128ELL-55SXE
73	CY621282BNLL-70SXET	2-Oct-19	29-Jun-20		CY62128ELL-55SXET
74	CY62138VLL-WAF1	3-Jul-19	30-Dec-19		
75	CY62148DV30LL-55SXI	3-Jul-19	30-Dec-19	CY62148EV30LL-55SXI	
76	CY62148DV30LL-55SXIT	3-Jul-19	30-Dec-19	CY62148EV30LL-55SXIT	
77	CY62148V-WAF	3-Jul-19	30-Dec-19		
78	CY62167DV30LL-55BVI	3-Jul-19	30-Dec-19		CY62167G30-45BVXI
79	CY62167DV30LL-55BVIT	3-Jul-19	30-Dec-19		CY62167G30-45BVXIT
80	CY62168DV30LL-55BVI	3-Jul-19	30-Dec-19		CY62168G30-45BVXI
81	CY62168DV30LL-55BVIT	3-Jul-19	30-Dec-19		CY62168G30-45BVXIT
82	CY7C1012DV33-10BGXI	3-Jul-19	30-Dec-19		
83	CY7C1012DV33-10BGXIT	3-Jul-19	30-Dec-19		
84	CY7C1021BN-15ZSXE	2-Oct-19	29-Jun-20		
85	CY7C1021BN-15ZSXET	2-Oct-19	29-Jun-20		
86	CY7C1021BNL-15ZSXA	1-Jan-20	4-Jan-21		
87	CY7C1021BNL-15ZSXAT	1-Jan-20	4-Jan-21		
88	CY7C1021BNV33L-15BAI	3-Jul-19	30-Dec-19		CY7C1021DV33-10BVXI
89	CY7C1021BNV33L-15BAIT	3-Jul-19	30-Dec-19		CY7C1021DV33-10BVXIT
90	CY7C1021BNV33L-15ZXI	3-Jul-19	30-Dec-19		CY7C1021DV33-10ZSXI
91	CY7C1021BNV33L-15ZXIT	3-Jul-19	30-Dec-19		CY7C1021DV33-10ZSXIT
92	CY7C1021D-10ZSXA	2-Oct-19	29-Jun-20		
93	CY7C1021D-10ZSXAT	2-Oct-19	29-Jun-20		

94	CY7C1021DV33-10ZSXA	2-Oct-19	29-Jun-20		
95	CY7C1021DV33-10ZSXAT	2-Oct-19	29-Jun-20		
96	CY7C1024DV33-10BGXI	3-Jul-19	30-Dec-19		
97	CY7C1024DV33-10BGXIT	3-Jul-19	30-Dec-19		
98	CY7C1034DV33-10BGXI	3-Jul-19	30-Dec-19		
99	CY7C1034DV33-10BGXIT	3-Jul-19	30-Dec-19		
100	CY7C109B-1XW14	3-Jul-19	30-Dec-19		
101	CY7C109B-1XWI	3-Jul-19	30-Dec-19		
102	CY7C1460AV33-167AXIT	3-Jul-19	30-Dec-19	CY7C1460KV33-167AXIT	
103	CY7C199CNL-15VXI	3-Jul-19	30-Dec-19		
104	CY7C199CNL-15VXIT	3-Jul-19	30-Dec-19		
105	CY7C60123-3X14C	3-Jul-19	30-Dec-19		
106	CY7C60123-PVXC	3-Jul-19	30-Dec-19		
107	CY7C65640A-LTXC	3-Jul-19	30-Dec-19		
108	CY7C65640A-LTXCT	3-Jul-19	30-Dec-19		
109	CY7C672001-48BAXI	3-Jul-19	30-Dec-19		
110	CY7C672001-48BAXIT	3-Jul-19	30-Dec-19		
111	CY7C67200-48BAXI	3-Jul-19	30-Dec-19		
112	CY7C67200-48BAXIT	3-Jul-19	30-Dec-19		
113	CY7C67300-100AXI	1-Jan-20	4-Jan-21		
114	CY7C67300-100AXIT	1-Jan-20	4-Jan-21		
115	CY7C68001-56LTXC	3-Jul-19	30-Dec-19		
116	CY7C68001-56PVXC	3-Jul-19	30-Dec-19		
117	CY7C68001-56PVXCT	3-Jul-19	30-Dec-19		
118	CY88151APNF-G-100-JNE1	3-Apr-19	1-Jul-19		
119	CY88151APNF-G-100-JNEFE1	3-Apr-19	1-Jul-19		
120	CY88151APNF-G-100-JNERE1	3-Apr-19	1-Jul-19		
121	CY88151APNF-G-200-JNE1	3-Apr-19	1-Jul-19		
122	CY88151APNF-G-200-JNEFE1	3-Apr-19	1-Jul-19		
123	CY88151APNF-G-200-JNERE1	3-Apr-19	1-Jul-19		
124	CY88152APNF-G-100-JNE1	3-Apr-19	1-Jul-19		
125	CY88152APNF-G-100-JNEFE1	3-Apr-19	1-Jul-19		
126	CY88152APNF-G-100-JNERE1	3-Apr-19	1-Jul-19		
127	CY88152APNF-G-101-JNE1	3-Apr-19	1-Jul-19		
128	CY88152APNF-G-101-JNEFE1	3-Apr-19	1-Jul-19		
129	CY88152APNF-G-101-JNERE1	3-Apr-19	1-Jul-19		
130	CY88152APNF-G-111-JNE1	3-Apr-19	1-Jul-19		
131	CY88152APNF-G-111-JNEFE1	3-Apr-19	1-Jul-19		
132	CY88152APNF-G-111-JNERE1	3-Apr-19	1-Jul-19		
133	CY88152APNF-G-112-JNE1	3-Apr-19	1-Jul-19		
134	CY88152APNF-G-112-JNEFE1	3-Apr-19	1-Jul-19		
135	CY88152APNF-G-112-JNERE1	3-Apr-19	1-Jul-19		
136	CY88154APNF-G-103-JNEFE1	3-Apr-19	1-Jul-19		
137	CY88154APNF-G-103-JNERE1	3-Apr-19	1-Jul-19		
138	CY88154APNF-G-112-JNE1	3-Apr-19	1-Jul-19		
139	CY88154APNF-G-112-JNEFE1	3-Apr-19	1-Jul-19		
140	CY88154APNF-G-112-JNERE1	3-Apr-19	1-Jul-19		

141	CY88154APNF-G-113-JNE1	3-Apr-19	1-Jul-19		
142	CY88154APNF-G-113-JNEFE1	3-Apr-19	1-Jul-19		
143	CY88154APNF-G-113-JNERE1	3-Apr-19	1-Jul-19		
144	CY8C20065-24LKXI	3-Jul-19	30-Dec-19		
145	CY8C20065-24LKXIT	3-Jul-19	30-Dec-19		
146	CY8C20111-SX1I	3-Jul-19	30-Dec-19		CY8CMBR3102-SX1I
147	CY8C20111-SX1IT	3-Jul-19	30-Dec-19		CY8CMBR3102-SX1IT
148	CY8C20121-SX1I	3-Jul-19	30-Dec-19		CY8CMBR3102-SX1I
149	CY8C20121-SX1IT	3-Jul-19	30-Dec-19		CY8CMBR3102-SX1IT
150	CY8C20134-12SXI	3-Jul-19	30-Dec-19		
151	CY8C20160-SX2I	3-Jul-19	30-Dec-19		CY8CMBR3110-SX2I
152	CY8C20160-SX2IT	3-Jul-19	30-Dec-19		CY8CMBR3110-SX2IT
153	CY8C20180-SX2I	3-Jul-19	30-Dec-19		CY8CMBR3110-SX2I
154	CY8C20180-SX2IT	3-Jul-19	30-Dec-19		CY8CMBR3110-SX2IT
155	CY8C20236A-24LKXA	2-Oct-19	29-Jun-20		
156	CY8C20236A-24LKXAT	2-Oct-19	29-Jun-20		
157	CY8C20446AS-24LQXI	3-Jul-19	30-Dec-19		CY8C20446A-24LQXI
158	CY8C20467S-24LQXI	3-Jul-19	30-Dec-19		
159	CY8C20467S-24LQXIT	3-Jul-19	30-Dec-19		
160	CY8C20666A-24LQXI	3-Jul-19	30-Dec-19		CY8C20446A-24LQXI
161	CY8C20666A-24LQXIT	3-Jul-19	30-Dec-19		CY8C20446A-24LQXIT
162	CY8C20666A-24LTXI	3-Jul-19	30-Dec-19		CY8C20646A-24LTXI
163	CY8C20666A-24LTXIT	3-Jul-19	30-Dec-19		CY8C20646A-24LTXIT
164	CY8C21223-24LGXI	3-Jul-19	30-Dec-19		CY8C21323-24LQXI
165	CY8C21223-24LGXIT	3-Jul-19	30-Dec-19		CY8C21323-24LQXIT
166	CY8C24223A-12PVXE	2-Oct-19	29-Jun-20		
167	CY8C24223A-12PVXET	2-Oct-19	29-Jun-20		
168	CY8C24223A-24PVXA	2-Oct-19	29-Jun-20		
169	CY8C24223A-24PVXAT	2-Oct-19	29-Jun-20		
170	CY8C24423A-12PVXE	2-Oct-19	29-Jun-20		
171	CY8C24423A-12PVXET	2-Oct-19	29-Jun-20		
172	CY8C24423A-24PVXA	2-Oct-19	29-Jun-20		
173	CY8C24423A-24PVXAT	2-Oct-19	29-Jun-20		
174	CY8C29466-12PVXE	2-Oct-19	29-Jun-20		
175	CY8C29466-12PVXET	2-Oct-19	29-Jun-20		
176	CY8C29466-24PVXA	2-Oct-19	29-Jun-20		
177	CY8C29466-24PVXAT	2-Oct-19	29-Jun-20		
178	CY8C29666-24PVXA	2-Oct-19	29-Jun-20		
179	CY8C29666-24PVXAT	2-Oct-19	29-Jun-20		
180	CY8C3246FNI-213T	3-Jul-19	30-Dec-19		
181	CY8C3446LTI-074	3-Jul-19	30-Dec-19		CY8C3446LTI-085
182	CY8C3446LTI-074T	3-Jul-19	30-Dec-19		CY8C3446LTI-085T
183	CY8C3446PVI-076	3-Jul-19	30-Dec-19		CY8C3866PVI-070
184	CY8C3446PVI-076T	3-Jul-19	30-Dec-19		CY8C3866PVI-070T
185	CY8C3446PVI-102	3-Jul-19	30-Dec-19		CY8C3866PVI-070
186	CY8C3446PVI-102T	3-Jul-19	30-Dec-19		CY8C3866PVI-070T
187	CY8C3665PVI-008	3-Jul-19	30-Dec-19		CY8C3866PVI-070

188	CY8C3665PVI-008T	3-Jul-19	30-Dec-19		CY8C3866PVI-070T
189	CY8C4124FNI-443T	3-Jul-19	30-Dec-19		
190	CY8C5488LTI-LP093	3-Jul-19	30-Dec-19		CY8C5688LTI-LP086
191	CY8C5666AXQ-LP004	3-Jul-19	30-Dec-19		CY8C5667AXQ-LP040
192	CY8CKIT-008	3-Apr-19	1-Jul-19		
193	CY8CKIT-009A	3-Apr-19	1-Jul-19		
194	CY8CKIT-010A	3-Apr-19	1-Jul-19		
195	CY8CKIT-012	3-Apr-19	1-Jul-19		
196	CY8CKIT-019	3-Apr-19	1-Jul-19		
197	CY8CKIT-020	3-Apr-19	1-Jul-19		
198	CY8CKIT-025	3-Apr-19	1-Jul-19		
199	CY8CKIT-029A	3-Apr-19	1-Jul-19		
200	CY8CKIT-031	3-Apr-19	1-Jul-19		
201	CY8CKIT-035	3-Apr-19	1-Jul-19		
202	CY8CKIT-036	3-Apr-19	1-Jul-19		
203	CY8CKIT-038	3-Apr-19	1-Jul-19		
204	CY8CKIT-049-42XX	3-Apr-19	1-Jul-19		
205	CY8CLED04DOCD1-56LTXI	3-Jul-19	30-Dec-19		CY8CLED04D01-56LTXI
206	CY8CMBR2010-24LQXI	3-Jul-19	30-Dec-19		CY8CMBR3116-LQXI
207	CY8CMBR2010-24LQXIT	3-Jul-19	30-Dec-19		CY8CMBR3116-LQXIT
208	CYSHM35936P-L099FNIT	3-Jul-19	30-Dec-19		
209	CG7281AM	3-Jul-19	30-Dec-19		
210	CG7281AMT	3-Jul-19	30-Dec-19		
211	CG7428AA	2-Oct-19	29-Jun-20		
212	CG7428AAT	2-Oct-19	29-Jun-20		
213	CG7745AA	3-Jul-19	30-Dec-19		
214	CG7774AA	3-Jul-19	30-Dec-19		CY62167G30-45ZXI
215	CG7774AAT	3-Jul-19	30-Dec-19		CY62167G30-45ZXIT
216	CG7816AA	3-Jul-19	30-Dec-19		
217	CG7816AAT	3-Jul-19	30-Dec-19		
218	CG7838AA	3-Jul-19	30-Dec-19		CY62167G30-45ZXI
219	CG7838AAT	3-Jul-19	30-Dec-19		CY62167G30-45ZXIT
220	CG7860AA	3-Jul-19	30-Dec-19		
221	CG7860AAT	3-Jul-19	30-Dec-19		
222	CG8130AA	3-Jul-19	30-Dec-19		
223	CG8130AAT	3-Jul-19	30-Dec-19		
224	CG8217AA	3-Jul-19	30-Dec-19		CY62167G30-45BVXI
225	CG8217AAT	3-Jul-19	30-Dec-19		CY62167G30-45BVXIT
226	CG8218AA	3-Jul-19	30-Dec-19		CY62167G30-45ZXI
227	CG8218AAT	3-Jul-19	30-Dec-19		CY62167G30-45ZXIT
228	CG8426AA	3-Jul-19	30-Dec-19		CY7C1061G30-10BVXI
229	CG8426AAT	3-Jul-19	30-Dec-19		CY7C1061G30-10BVXIT
230	CG8532AA	3-Jul-19	30-Dec-19		CY62148EV30LL-55SXI
231	CG8532AAT	3-Jul-19	30-Dec-19		CY62148EV30LL-55SXIT
232	CG8566AA	3-Jul-19	30-Dec-19		
233	CG8566AAT	3-Jul-19	30-Dec-19		
234	CG8607AA	2-Oct-19	29-Jun-20		CY2305SXI-1H

235	CG8607AAT	2-Oct-19	29-Jun-20		CY2305SXI-1HT
236	CG8634AM	3-Jul-19	30-Dec-19		
237	CG8634AMT	3-Jul-19	30-Dec-19		
238	CG8682AF	3-Jul-19	30-Dec-19		
239	CG8682AFT	3-Jul-19	30-Dec-19		
240	CP6789AM	3-Jul-19	30-Dec-19		
241	CP6789AMT	3-Jul-19	30-Dec-19		
242	CP6801AT	1-Jan-20	4-Jan-21		
243	CP6801ATT	1-Jan-20	4-Jan-21		
244	CP8811ATT	3-Jul-19	30-Dec-19		
245	CS7412AT	2-Oct-19	29-Jun-20		
246	CS7412ATT	2-Oct-19	29-Jun-20		
247	CS7642AT	3-Jul-19	30-Dec-19		
248	CS7642ATT	3-Jul-19	30-Dec-19		
249	EAN62691701	2-Oct-19	29-Jun-20	S29GL01GS10TFI020	
250	MB39A134EVB-01	3-Apr-19	1-Jul-19		
251	MB39A135EVB-01	3-Apr-19	1-Jul-19		
252	MB39C011AEVB-01	3-Apr-19	1-Jul-19		
253	MB39C022G-EVB01	3-Apr-19	1-Jul-19		
254	MB88121CPMC1-GE1	None	29-Jun-20		
255	MB88151AEB01-100	3-Apr-19	1-Jul-19		
256	MB88151AEB01-200	3-Apr-19	1-Jul-19		
257	MB88151PNF-G-100-JN-EFE1	None	1-Jul-19		
258	MB88152AEB01-100	3-Apr-19	1-Jul-19		
259	MB88152AEB01-101	3-Apr-19	1-Jul-19		
260	MB88152PNF-G-110-JN-EFE1	None	1-Jul-19		
261	MB88152PNF-G-111-JN-ERE1	None	1-Jul-19		
262	MB88154AEB01-103	3-Apr-19	1-Jul-19		
263	MB89374T-PFQ-G-BND	None	29-Jun-20		
264	MB89697BTPFM-G-316	None	29-Jun-20		
265	MB90F036PMC-GE1	None	29-Jun-20		
266	MB90F058PF-G-NNE1	None	29-Jun-20		
267	MB90F334ATPMC-G-SPE1	None	29-Jun-20		
268	MB90F337PMC-G-JNE1	None	29-Jun-20		
269	MB90F337TPMC-G-N9E1	None	29-Jun-20		
270	MB90F342ASPMC-GE1	None	29-Jun-20		
271	MB90F345CESPMC-G-JNE1	None	29-Jun-20		
272	MB90F347ASPF-GE1	None	29-Jun-20		
273	MB90F347DPFV-G-JNE1	None	29-Jun-20		
274	MB90F347DSPQC-GE2	None	29-Jun-20		
275	MB90F387PMT-GE1	None	29-Jun-20		
276	MB90F395HAPMCR-GSE2	None	29-Jun-20		
277	MB90F543GSPFR-G	None	29-Jun-20		
278	MB90F591APFR-G	None	29-Jun-20		
279	MB90F867APF-GE1	None	29-Jun-20		
280	MB90F867APMC-G-JNE1	None	29-Jun-20		
281	MB90F867EPMC-GE1	None	29-Jun-20		



282	MB90F867ESPF-GE1	None	29-Jun-20		
283	MB90F924NCPMC-GE1	None	29-Jun-20		
284	MB90F924NCSPMC-GE1	None	29-Jun-20		
285	MB91F038PMC-GSE1	None	29-Jun-20		
286	MB91F248SPFV-GS-TLE1	None	29-Jun-20		
287	MB91F272PMC-GSE1	None	29-Jun-20		
288	MB91F272SPMC-GSE1	None	29-Jun-20		
289	MB91F362GBPFVS-G-N2E1	None	29-Jun-20	CY91F362GBPFVS-GE1	
290	MB91F362GBPVSR-G	None	29-Jun-20		
291	MB91F362GBPVSR-G-N2E1	None	29-Jun-20	CY91F362GBPVSR-GE1	
292	MB91F364GPMC-GE1	None	29-Jun-20		
293	MB91F369GAPQS1-G-N2E1	None	29-Jun-20		
294	MB91F369GAPS1R-G-N2E1	None	29-Jun-20	CY91F369GAPQS1-G-N1E1	
295	MB91F465DAPFVS-GSK5E1	None	29-Jun-20		
296	MB91F465PAPMC-GS-N2E2	None	29-Jun-20	CY91F465PAPMC-GS-UJE2	
297	MB91F467SAPMC-GS-D2E2	None	29-Jun-20		
298	MB91F524KHEPMC-GS-F4E1	None	29-Jun-20		
299	MB91F525KHBPMC-GS-F4E1	None	29-Jun-20		
300	MB91F526KSAPMC-GTE1	None	29-Jun-20		
301	MB91F526KWAPMC-GTE1	None	29-Jun-20		
302	MB91F526LKDPMC-GSE2	None	29-Jun-20		
303	MB91F526LKEPMC-GSE2	None	29-Jun-20		
304	MB91F528UWCEQ-GSE2	None	29-Jun-20	CY91F528UWCEQ-GSE2	
305	MB91F531BPMC-GSAE2	None	29-Jun-20		
306	MB91F531BSPMC-GSAE2	None	29-Jun-20		
307	MB91F532BPMC-GSAE2	None	29-Jun-20		
308	MB91F532BSPMC-GSAE2	None	29-Jun-20		
309	MB91F534BSPMC-GSAE2	None	29-Jun-20		
310	MB91F53ACEQ-GSAE2	None	29-Jun-20		
311	MB91F53ACSEQ-GSAE2	None	29-Jun-20		
312	MB91F53BCSEQ-GSAE2	None	29-Jun-20		
313	MB91F775DPMC-GSE1	None	29-Jun-20		
314	MB91F775RDPMC-GSE1	None	29-Jun-20		
315	MB91F777DPMC-GSE1	None	29-Jun-20		
316	MB91F777PMC-GSE1	None	29-Jun-20		
317	MB91F777SPMC-GSE1	None	29-Jun-20		
318	MB95006PFF-G-103E1	None	29-Jun-20		
319	MB95F168NAPMC1-GE1	None	29-Jun-20		
320	MB95F176JSPMC1-GSE1	None	29-Jun-20		
321	MB96F007ABPMC1-GE1	None	29-Jun-20		
322	MB96F013RBPMC-GSE1	None	29-Jun-20		
323	MB96F347RSAPQCR-GSE2	None	29-Jun-20		
324	MB96F348RSCPMC-GE2	None	29-Jun-20		
325	MB96F348TSAPMCR-GSE2	None	29-Jun-20		
326	MB96F355RWBPMC1-GSE2	None	29-Jun-20		
327	MB96F385RSBPMC-GS-107E2	None	29-Jun-20		
328	MB96F385RSBPMC-GS-110E2	None	29-Jun-20		

329	MB96F386RSAPMC-R-GSE2	None	29-Jun-20		
330	MB96F386RSCPMC-GS-114E2	None	29-Jun-20		
331	MB96F386RSCPMC-GS-122E2	None	29-Jun-20		
332	MB96F386RSCPMC-GS-124E2	None	29-Jun-20		
333	MB96F386RSCPMC-GS-126E2	None	29-Jun-20		
334	MB96F645RBPMC-GSE1	None	29-Jun-20		
335	MB96F693RBPMC-GSE1	None	29-Jun-20		
336	MB96F696RBPMC-GSE1	None	29-Jun-20		
337	MB96F6A6RAPMC-GE2	None	29-Jun-20		
338	MB96F6B6RAPMC-GE2	None	29-Jun-20		
339	MB96F6C6RAPMC-GE2	None	29-Jun-20		
340	MB9BF516SPMC-GE1	None	29-Jun-20		
341	MB9BF618TBGL-GE1	None	29-Jun-20	CY9BF618TBGL-GK7E1	
342	MB9DF125BPMC-GSE2	None	29-Jun-20		
343	MB9DF125EBPMC-GSE2	None	29-Jun-20		
344	MB9EF226EBPMC-GSE2	None	29-Jun-20		
345	MB9EF226PMC-GSE2	None	29-Jun-20	CY9EF226PMC-GSE2	
346	P770009CF9C000	2-Oct-19	29-Jun-20	S29GL256S10DHI023	
347	P770011CF9C006	2-Oct-19	29-Jun-20	S29GL256S11DHI023	
348	QMP29GL128P10TAI01	3-Jul-19	30-Dec-19		
349	QMP29GL128P10TAI020	3-Jul-19	30-Dec-19		
350	QMP29GL512N11TAI010	3-Jul-19	30-Dec-19		
351	S29AL016J70TAI020	3-Jul-19	30-Dec-19		
352	S29GL032N90TAI010	2-Oct-19	29-Jun-20		
353	S29GL032N90TAI030	3-Jul-19	30-Dec-19		
354	S29GL064N11TAIV20	3-Jul-19	30-Dec-19		
355	S29GL064N90TAI010	1-Jan-20	3-Jan-21		
356	S29GL064N90TAI040	3-Jul-19	30-Dec-19		
357	S29GL128P11TAI020	3-Jul-19	30-Dec-19		
358	S29GL256P10TAI010	3-Jul-19	30-Dec-19		
359	S29GL256P11TAI010	3-Jul-19	30-Dec-19		
360	S29GL256P11TAI020	3-Jul-19	30-Dec-19		
361	S29GL256P11TAIV20	3-Jul-19	30-Dec-19		