



Cypress Semiconductor Corporation – An Infineon Technologies Company  
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## PRODUCT CHANGE NOTIFICATION

**PCN:** PCN205101

**Date:** December 18, 2020

**Subject:** Qualification of Greatek Electronics Inc. as an Alternate Assembly Site for Select 44-Lead TSOP II Package

### **Description of Change:**

Cypress announces the qualification of Greatek Electronics Inc., Taiwan located at No. 136, Gong-Yi Rd., Zhunan Township, Miaoli County 350, Taiwan, as an alternate assembly site for select Memory products offered in 44-Lead TSOP II package.

These products are currently processed at Jiangsu Changjiang Electronics Technology Co., Ltd (JCET) of Cypress' subcontractor in China; Orient Semiconductor Electronics (OSET) of Cypress subcontractor in Taiwan and IFX Cypress Manufacturing Limited (CML) in Philippines. The transfer of assembly operations to Greatek is motivated by JCET's phasing out (i.e., End-Of-Life) of TSOP manufacturing operations, as previously announced in advance PCN - APCN 201001/ 201002 and also as alternative assembly site.

Given the imminent phase out of operations at JCET, and the dynamically changing market conditions, Cypress is pleased to offer supply of changed material (i.e., Greatek assembled product) ahead of the implementation date. Customers are strongly encouraged to avail of this option, where production volumes of Greatek assembled product can be secured and shipped against current orders. Please contact your Cypress Sales Representative for more information on availing this option.

Greatek is certified by international quality and safety standards, namely, ISO 9001, IATF 16949, ISO 14001, and ISO 26262. These certificates, along with their Sony Green Partnership certificate, can be viewed on their corporate web site: <http://www.greatek.com.tw/>

### **BOM Comparison:**

The 44-Lead TSOP II package will be assembled at Greatek using an industry standard set of Bill of Materials (BOM). Please see table below for a comparison of BOM among the assembly sites.

The 44-Lead TSOP II package is assembled at Greatek using the following Bill of Materials (BOM):

For Automotive product:

Material	Greatek BOM	JCET BOM	OSET BOM
Leadframe	Cu Leadframe	PPF Leadframe	Cu Leadframe
Leadfinish	Pure Sn	NiPdAu	Pure Sn
Die Attach Material	Showa Denko EN-4900GC	Henkel QMI-509	Sumitomo CRM-1076W
Wire type	0.9 mil Au wire	0.9mil Au wire	0.8mil Au wire
Mold Compound	Sumitomo EME-G700SLA	Kyocera KE-G6000DA-CY	Sumitomo EME-G631SH

For Non-Automotive product:

Material	Greatek BOM	JCET BOM	OSET BOM	IFX CML BOM
Leadframe	Cu Leadframe	PPF/ Cu Leadframe	Cu Leadframe	PPF/ Cu Leadframe
Leadfinish	Pure Sn	NiPdAu/ Pure Sn	Pure Sn	NiPdAu
Die Attach Material	Showa Denko EN-4900GC	Henkel QMI-509	Henkel 8340/ Sumitomo CRM1076/ Nitto EM-760L2	Henkel QMI-509
Wire type	0.8mil CuPdAu wire	0.8/ 0.9mil Au wire/ 0.8mil CuPd wire	1.0mil Au wire/ 0.8mil Cu wire/ 0.8mil CuPd wire	0.9mil Au wire/ 0.8mil CuPd wire
Mold Compound	Sumitomo EME-G700SLA	Kyocera KE-G6000DA-CY/ Sumitomo EME-G620B / Sumitomo EME-G631SH-Q	Showa Denko CEL 9200HF/ Showa Denko CEL 9200HF-U/ Sumitomo EME-G631	Kyocera KE-G6000DA

**Benefit of Change:**

Qualification of alternative manufacturing sites provides the means for Cypress to ensure business continuity on the stated products, and thereby meet long-term market demand and delivery commitments to customers after the phase out of operations at JCET.

**Part Numbers Affected: 232**

See the attached 'Affected Parts List' file for a list of all part numbers affected by this change. Note that any new parts introduced after the publication of this PCN will be assembled at Greatek.

**Qualification Status:**

Greatek has been qualified through a series of tests documented in the Qualification Test Plan summarized in the table below. These qualification reports can be found as attachments to this PCN or by visiting [www.cypress.com](http://www.cypress.com) and typing the QTP number in the keyword search window.

QTP Number	Qualification Purpose
203206	TSOP II 44L Automotive Package Qual at Greatek Taiwan
203207	TSOP II 44L Package Qual at Greatek Taiwan

**Sample Status:**

Samples are available now, unless there is an indication that the sample ordering part numbers are subject to lead times. Qualification samples may not be built ahead of time for all part numbers affected by this change.

Please review the attached 'Affected Parts List' file for a list of affected part numbers with their associated Greatek sample ordering part numbers.

If you require qualification samples, please contact your local Cypress sales representative as soon as possible, preferably within 30 days of the date of this notification.

**Approximate Implementation Date:**

Effective immediately upon customer approval, or 90 days from the date of this notification, whichever comes first, shipments on part numbers in the attached file will be primarily sourced from Greatek. Customers should expect to receive JCET assembled product for a transitional period, until inventory is depleted.

**Anticipated Impact:**

Products assembled at Greatek are completely compatible with existing products from form, fit, functional, parametric and quality performance perspectives.

Cypress also recommends that customers take this opportunity to review this change against current application notes, system design considerations and customer environment conditions to assess impact (if any) to their application.

**Method of Identification:**

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

**Response Required:**

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](mailto:pcn_adm@cypress.com).

Sincerely,

Cypress PCN Administration

**Item Marketing Part Number**

1	A2C01848400
2	CY14B101KA-ZS25XI
3	CY14B101KA-ZS25XIT
4	CY14B101KA-ZS45XI
5	CY14B101KA-ZS45XIT
6	CY14B101LA-ZS20XI
7	CY14B101LA-ZS20XIT
8	CY14B101LA-ZS25XI
9	CY14B101LA-ZS25XIT
10	CY14B101LA-ZS45XI
11	CY14B101LA-ZS45XIT
12	CY14B101NA-ZS25XI
13	CY14B101NA-ZS25XIT
14	CY14B101NA-ZS45XI
15	CY14B101NA-ZS45XIT
16	CY14B104K-ZS25XI
17	CY14B104K-ZS25XIT
18	CY14B104K-ZS45XI
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25	CY14B104LA-ZS45XIT
26	CY14B104NA-ZS20XI
27	CY14B104NA-ZS20XIT
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29	CY14B104NA-ZS25XET
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31	CY14B104NA-ZS25XIT
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33	CY14B104NA-ZS45XET
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35	CY14B104NA-ZS45XIT
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37	CY14B256LA-ZS25XIT
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216 CG9079AAT  
217 CG9081AA  
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221 CG9187AA  
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224 CG9229AAT  
225 CG9231AF  
226 CG9231AFT  
227 FM22L16-55-TG  
228 FM22L16-55-TGTR  
229 FM28V102A-TG



230 FM28V102A-TGTR

231 FM28V202A-TG

232 FM28V202A-TGTR