



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20141203001

**Qualification of Carsem Suzhou as Additional Assembly/Test location for Select
Devices in the QFN package
Change Notification / Sample Request**

Date: 12/11/2014
To: MOUSER PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services
Phone: +1(214) 480-6037
Fax: +1(214) 480-6659

20141203001
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

| DEVICE | CUSTOMER PART NUMBER |
|---------------|-----------------------------|
| BQ24192RGET | null |
| BQ24195RGET | null |
| BQ24196RGET | null |
| BQ24292IRGET | null |
| BQ24707ARGRT | null |
| BQ24725ARGRT | null |
| BQ24735RGRT | null |
| TPS24720RGTR | null |
| TPS40304DRCR | null |
| TPS40304DRCT | null |
| TPS40305DRCR | null |
| TPS40305DRCT | null |
| TPS51217DSCT | null |
| TPS51220ARTVR | null |
| TPS51220ARTVT | null |
| TPS51427ARHBT | null |
| TPS51427RHBT | null |
| TPS53219RGTR | null |
| TPS60150DRVR | null |
| TPS60150DRVT | null |
| TPS61086DRCR | null |
| TPS61086DRCT | null |
| TPS61093DSKT | null |
| TPS62122DRVR | null |
| TPS62122DRVT | null |
| TPS63030DSKR | null |
| TPS63030DSKT | null |
| TPS63031DSKR | null |
| TPS63031DSKT | null |
| TPS63060DSCT | null |
| TPS63061DSCR | null |
| TPS63061DSCT | null |
| TPS71710DRVR | null |

Technical details of this Product Change follow on the next page(s).

| | | | | | | | | | | | | | | | | | |
|---|---|---------------------------------------|---------------------------|-------------------------------------|--------------------------|---------------|-----------------|---------------|----------------|----------------------------|------------|-------------|----------------------------|---------------|----------------|-----------------------------------|-----------------|
| PCN Number: | 20141203001 | | | PCN Date: | 12/11/2014 | | | | | | | | | | | | |
| Title: | Qualification of Carsem Suzhou as Additional Assembly/Test location for Select Devices in the QFN package | | | | | | | | | | | | | | | | |
| Customer Contact: | PCN Manager | Phone: | +1(214)480-6037 | Dept: | Quality Services | | | | | | | | | | | | |
| Proposed 1st Ship Date: | 03/11/2015 | Estimated Sample Availability: | | Date provided upon request | | | | | | | | | | | | | |
| Change Type: | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Assembly Site | <input type="checkbox"/> | Assembly Process | <input checked="" type="checkbox"/> | Assembly Materials | | | | | | | | | | | | |
| <input type="checkbox"/> | Design | <input type="checkbox"/> | Electrical Specification | <input type="checkbox"/> | Mechanical Specification | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Test Site | <input type="checkbox"/> | Packing/Shipping/Labeling | <input type="checkbox"/> | Test Process | | | | | | | | | | | | |
| <input type="checkbox"/> | Wafer Bump Site | <input type="checkbox"/> | Wafer Bump Material | <input type="checkbox"/> | Wafer Bump Process | | | | | | | | | | | | |
| <input type="checkbox"/> | Wafer Fab Site | <input type="checkbox"/> | Wafer Fab Materials | <input type="checkbox"/> | Wafer Fab Process | | | | | | | | | | | | |
| | <input type="checkbox"/> | Part number change | | | | | | | | | | | | | | | |
| PCN Details | | | | | | | | | | | | | | | | | |
| Description of Change: | | | | | | | | | | | | | | | | | |
| <p>Texas Instruments is pleased to announce the qualification of Carsem Suzhou as an alternate Assembly and test site for the devices listed below. For the devices listed in Group 2, there are no BOM differences. Device construction differences are noted as follows for Group 1 devices:</p> <table border="1" style="margin: 10px auto; width: 80%;"> <tr> <td>What</td> <td>TI Clark</td> <td>Carsem</td> </tr> <tr> <td>Mount Compound</td> <td>4205846</td> <td>SID#435143</td> </tr> </table> <p>or:</p> <table border="1" style="margin: 10px auto; width: 80%;"> <tr> <td>What</td> <td>TI Malaysia</td> <td>Carsem</td> </tr> <tr> <td>Mount Compound</td> <td>4207768</td> <td>SID#435143</td> </tr> </table> <p>Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.</p> | | | | | | What | TI Clark | Carsem | Mount Compound | 4205846 | SID#435143 | What | TI Malaysia | Carsem | Mount Compound | 4207768 | SID#435143 |
| What | TI Clark | Carsem | | | | | | | | | | | | | | | |
| Mount Compound | 4205846 | SID#435143 | | | | | | | | | | | | | | | |
| What | TI Malaysia | Carsem | | | | | | | | | | | | | | | |
| Mount Compound | 4207768 | SID#435143 | | | | | | | | | | | | | | | |
| Reason for Change: | | | | | | | | | | | | | | | | | |
| Continuity of Supply | | | | | | | | | | | | | | | | | |
| Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative): | | | | | | | | | | | | | | | | | |
| None | | | | | | | | | | | | | | | | | |
| Changes to product identification resulting from this PCN: | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%;"> <tr> <td colspan="3">Assembly Site</td> </tr> <tr> <td>TI Clark</td> <td>Assembly Site Origin (22L)</td> <td>ASO: QAB</td> </tr> <tr> <td>TI Malaysia</td> <td>Assembly Site Origin (22L)</td> <td>ASO: MLA</td> </tr> <tr> <td>CARZ</td> <td>Assembly Site Origin (22L)</td> <td>ASO: CSZ</td> </tr> </table> | | | | | | Assembly Site | | | TI Clark | Assembly Site Origin (22L) | ASO: QAB | TI Malaysia | Assembly Site Origin (22L) | ASO: MLA | CARZ | Assembly Site Origin (22L) | ASO: CSZ |
| Assembly Site | | | | | | | | | | | | | | | | | |
| TI Clark | Assembly Site Origin (22L) | ASO: QAB | | | | | | | | | | | | | | | |
| TI Malaysia | Assembly Site Origin (22L) | ASO: MLA | | | | | | | | | | | | | | | |
| CARZ | Assembly Site Origin (22L) | ASO: CSZ | | | | | | | | | | | | | | | |
| Sample product shipping label (not actual product label) | | | | | | | | | | | | | | | | | |



MADE IN: Malaysia
2DC: 2Q:

| | |
|---------------------|----------|
| MSL '2 /260C/1 YEAR | SEAL DT |
| MSL 1 /235C/UNLIM | 03/29/04 |

OPT:
ITEM:

LBL: 5A (L)T0:1750



(1P) SN74LS07NSR

(Q) 2000 (D) 0336

(31T) LOT: 3959047MLA
(4W) TKY (1T) 7523483SI2

(P)

(2P) REV: (V) 0033317

(20L) CS0: SHE (21L) CCO: USA

(22L) AS0: MLA (23L) ACO: MYS

Topside Device marking:

Assembly site code for QAB=I

Assembly site code for MLA=K

Assembly site code for CSZ=F

Product Affected

Group 1 Devices:

| | | | |
|--------------|--------------|---------------|---------------|
| BQ24192HRGER | BQ24726RGRT | BQ24738RGRR | TPS51427ARHBT |
| BQ24192HRGET | BQ24727RGRR | BQ24738RGRT | TPS51427RHBR |
| BQ24192RGER | BQ24727RGRT | SN0608098RHBR | TPS51427RHBT |
| BQ24192RGET | BQ24728HRGRR | SN1001021DRCR | TPS51601DRBR |
| BQ24195RGER | BQ24728HRGRT | TPS24720RGTR | TPS51601DRBT |
| BQ24195RGET | BQ24728RGRR | TPS24720RGTT | TPS53219RGTR |
| BQ24196BRGER | BQ24728RGRT | TPS40304DRCR | TPS53219RGTT |
| BQ24196BRGET | BQ24735FRGRR | TPS40304DRCT | TPS60150DRVR |
| BQ24196RGER | BQ24735FRGRT | TPS40305DRCR | TPS60150DRVTT |
| BQ24196RGET | BQ24735RGRR | TPS40305DRCT | TPS61093DSKR |
| BQ24292IRGER | BQ24735RGRT | TPS51211DSCR | TPS61093DSKT |
| BQ24292IRGET | BQ24735SRGRR | TPS51211DSCT | TPS62122DRVR |
| BQ24707ARGRR | BQ24735SRGRT | TPS51212DSCR | TPS62122DRVTT |
| BQ24707ARGRT | BQ24736RGRR | TPS51212DSCT | TPS63030DSKR |
| BQ24707RGRR | BQ24736RGRT | TPS51217DSCR | TPS63030DSKT |
| BQ24707RGRT | BQ24737RGRR | TPS51217DSCT | TPS63031DSKR |
| BQ24725ARGRR | BQ24737RGRT | TPS51220ARTVR | TPS63031DSKT |
| BQ24725ARGRT | BQ24738HRGRR | TPS51220ARTVT | TPS71710DRVR |
| BQ24726RGRR | BQ24738HRGRT | TPS51427ARHBR | TPS71710DRVTT |

Group 2 Devices:

| | | | |
|--------------|--------------|--------------|--------------|
| TPS51518RUKR | TPS61086DRCT | TPS63060DSCT | TPS63061DSCT |
| TPS51518RUKT | TPS63060DSCR | TPS63061DSCR | TPS65282RGER |
| TPS61086DRCR | | | |

Group #1 Qualification Data:

Qualification Report

Qualification of BQ24190RGE BQ24192 BQ24192i bq24193 bq24192s bq24196 bq24195
bq24195L BQ24295 BQ24296 BQ24250 BQ24297 in Carsem Suzhou , built with RFAB/LBC7
Approved 10/16/2014

Product Attributes

| Attributes | Qual Device: BQ24190RGE | QBS Product: BQ24190RGE |
|---------------------|--------------------------|--------------------------|
| Qual ID | 20140225-102305 | 20120717-62441 |
| Assembly Site | CARSEM SUZHOU | TI-CLARK |
| Package Family | QFN | QFN |
| Flammability Rating | UL 94 V-0 | UL 94 V-0 |
| Wafer Fab Site | RFAB | RFAB |
| Wafer Fab Process | LBC7+1UM VIATOP+6DU SEAL | LBC7+1UM VIATOP+6DU SEAL |

- QBS: Qual By Similarity

- Qual Device BQ24190RGE is qualified at LEVEL2-260C

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

| Type | Test Name / Condition | Duration | Qual Device: BQ24190RGE | QBS Product: BQ24190RGE |
|------|---------------------------------|------------------------------|----------------------------|----------------------------|
| PC | PreCon Level 2 | Elec/25C | 1/154/0 | - |
| AC | Autoclave 121C | 96 Hours | 1/77/0 | - |
| TC | Temperature Cycle, - 65/150C | 500 Cycles | 1/77/0 | - |
| WBS | Bond Shear | Bond/Ball | 1/5/0 | - |
| WBP | Bond Pull | Bond/Pull | 1/5/0 | - |
| HBM | ESD - HBM | 4000V* | 1/3/0 | - |
| CDM | ESD - CDM | 1500V* | 1/3/0 | - |
| ED | Electrical Characterization | Full Temp & Voltage range | - | 1/Pass |

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

Qualification Report

CARSEM SZ 200MM 300MM Cu Wire On LBC7 Thin Al-Pad

Approved 09/16/2014

*Cu-wirebond on LBC7 (Thin AlPad)
Thin Alpad assembly for both 200 and 300mm
Includes Au and Cu-wirebond devices
No-COL devices
No Downbonds*

Product Attributes

| Attributes | Qual Device: TPS51217DSCR | Qual Device: TPS51220RHBR | Qual Device: TPS720105DRVR | Package Qual Device: TPS53211RGTR |
|---------------------|------------------------------|------------------------------|-------------------------------|--------------------------------------|
| Assembly Site | CARSEM SUZHOU | CARSEM SUZHOU | CARSEM SUZHOU | CARSEM SUZHOU |
| Package Family | WSON | VQFN | WSON | VQFN |
| Flammability Rating | - | - | UL 94 V-0 | |
| Wafer Fab Site | RFAB | RFAB | FR-BIP-1 | MIHO8 |
| Wafer Fab Process | LBC7 | LBC7X3 | LBC7X3 | LBC7 |

- QBS: Qual By Similarity
- Qual Devices qualified at LEVEL2-260C: TPS51217DSCR, TPS51220RHBR
- Qual Device TPS720105DRVR is qualified at LEVEL 1-260C

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

| Type | Test Name / Condition | Duration | Qual Device: TPS51217DSCR | Qual Device: TPS51220RHBR | Qual Device: TPS720105DRVR | Package Qual Device: TPS53211RGTR |
|------|-------------------------------|---|------------------------------|------------------------------|-------------------------------|--------------------------------------|
| PC | Preconditioning | Level 2-260C | 6/1155/0 | 1/100/0 | - | - |
| HAST | Biased HAST, 130C/85%RH | 96 Hours | - | 1/77/0 | - | 3/230/0 |
| AC | Autoclave 121C | 96 Hours | 3/231/0 | - | - | 3/231/0 |
| TC | Temperature Cycle - 65C/150C | 500 Cycles | 3/231/0 | - | - | 3/231/0 |
| HTSL | High Temp. Storage Bake, 170C | 420 Hours | 3/231/0 | - | - | 3/231/0 |
| HTOL | Life Test, 150C | 300 Hours | 3/231/0 | - | - | - |
| CDM | ESD - CDM | 500 Hours | - | - | 1/3/0 | - |
| ED | Electrical Characterization | Per Datasheet Parameters | - | - | Pass | - |
| DPA | Destructive Physical Analysis | x-section and deprocess to examine assembly robustness, particularly BG, die-saw and wirebond | 3/6/0 | - | - | - |
| MQ | Manufacturability (Assembly) | (per mfg. Site specification) | Pass | Pass | Pass | Pass |
| MSL | Thermal Path Integrity | Level 2-260C | 3/36/0 | - | - | 1/12/0 |
| YLD | FTY and Bin Summary | Compare against baseline | 3/-/0 | - | - | - |

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles
Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

Group #2 Qualification Data:

| Qualification Data #1: Approved January 2013 | | | | |
|---|----------------------|--------------------|------------------|-------|
| This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications. | | | | |
| Qualification Device: SN1010017RSAR2 (MSL 2-260C) | | | | |
| Package Construction Details | | | | |
| Assembly Site: | CARZ | Mold Compound: | SID#441086 | |
| # Pins-Designator, Family: | 16-RSA, VQFN | Mount Compound: | SID#435143 | |
| Lead Finish: | NiPdAu | Bond Wire: | 2.0 Mil Dia., Cu | |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results | | | | |
| Reliability Test | Conditions | Sample Size / Fail | | |
| | | Lot 1 | Lot 2 | Lot 3 |
| Electrical Characterization | Per Datasheet | Pass | -- | -- |
| **High Temp. Storage Bake | 170C (420 Hrs) | 77/0 | 77/0 | 77/0 |
| **Autoclave 121C | 121C, 2 atm (96 Hrs) | 77/0 | 77/0 | 77/0 |
| **T/C -65C/150C | -65C/+150C (500 Cyc) | 77/0 | 77/0 | 77/0 |
| Notes: **Tests require preconditioning sequence: MSL2-260C | | | | |

| Qualification Data #2: Approved January 2013 | | | | |
|---|--------------------------|--------------------|-------------------|-------|
| This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications. | | | | |
| Qualification Device: TPS51123RGER (MSL 2-260C) | | | | |
| Package Construction Details | | | | |
| Assembly Site: | CARZ | Mold Compound: | SID#441086 | |
| # Pins-Designator, Family: | 24-RGE, VQFN | Mount Compound: | SID#435143 | |
| Lead Finish: | NiPdAu | Bond Wire: | 0.96 Mil Dia., Cu | |
| Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results | | | | |
| Reliability Test | Conditions | Sample Size / Fail | | |
| | | Lot 1 | Lot 2 | Lot 3 |
| Electrical Characterization | Per Datasheet | Pass | -- | -- |
| ** High Temp Operating Life | 125C (168, 500, 1000Hrs) | 38/0 | 38/0 | 38/0 |
| **High Temp. Storage Bake | 170C (420 Hrs) | 77/0 | 77/0 | 77/0 |
| **Autoclave 121C | 121C, 2 atm (96 Hrs) | 77/0 | 77/0 | 77/0 |
| **T/C -65C/150C | -65C/+150C (500 Cyc) | 77/0 | 77/0 | 77/0 |
| Notes: **Tests require preconditioning sequence: MSL2-260C | | | | |

Qualification Data #3: Approved January 2013

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device: TPS650240RHBR (MSL 2-260C)

Package Construction Details

| | | | |
|----------------------------|--------------|-----------------|------------------|
| Assembly Site: | CARZ | Mold Compound: | SID#441086 |
| # Pins-Designator, Family: | 32-RHB, VQFN | Mount Compound: | SID#435143 |
| Lead Finish: | NiPdAu | Bond Wire: | 1.3 Mil Dia., Cu |

Qualification: ☐ Plan ☒ Test Results

| Reliability Test | Conditions | Sample Size / Fail | | |
|---------------------------|----------------------|--------------------|-------|-------|
| | | Lot 1 | Lot 2 | Lot 3 |
| **High Temp. Storage Bake | 170C (420 Hrs) | 77/0 | 77/0 | 77/0 |
| **Autoclave 121C | 121C, 2 atm (96 Hrs) | 77/0 | 77/0 | 77/0 |
| **T/C -65C/150C | -65C/+150C (500 Cyc) | 77/0 | 77/0 | 77/0 |

Notes: **Tests require preconditioning sequence: MSL2-260C

Qualification Data #4: Approved September 2013

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device: TPA3117D2RHBR (MSL 2-260C)

Package Construction Details

| | | | |
|----------------------------|--------------|-----------------|------------------|
| Assembly Site: | CARZ | Mold Compound: | SID#441086 |
| # Pins-Designator, Family: | 32-RHB, VQFN | Mount Compound: | SID#435143 |
| Lead Finish: | NiPdAu | Bond Wire: | 1.3 Mil Dia., Cu |

Qualification: ☐ Plan ☒ Test Results

| Reliability Test | Conditions | Sample Size / Fail | | |
|-----------------------------|----------------------|--------------------|-------|-------|
| | | Lot 1 | Lot 2 | Lot 3 |
| Electrical Characterization | Per Datasheet | Pass | Pass | Pass |
| **High Temp. Storage Bake | 170C (420 Hrs) | 77/0 | 77/0 | 77/0 |
| **Biased HAST | 130C/85%RH (96 Hrs) | 77/0 | 77/0 | 77/0 |
| **Autoclave 121C | 121C, 2 atm (96 Hrs) | 77/0 | 77/0 | 77/0 |
| **T/C -65C/150C | -65C/+150C (500 Cyc) | 77/0 | 77/0 | 77/0 |
| ESD CDM | +/- 250V | 3/0 | 3/0 | 3/0 |

Notes: **Tests require preconditioning sequence: MSL2-260C

Qualification Data #5: Approved September 2013

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device: TPA6132A2RTER (MSL 2-260C)

Package Construction Details

| | | | |
|----------------------------|--------------|-----------------|-------------------|
| Assembly Site: | CARZ | Mold Compound: | SID#441086 |
| # Pins-Designator, Family: | 16-RTE, WQFN | Mount Compound: | SID#435143 |
| Lead Finish: | NiPdAu | Bond Wire: | 0.96 Mil Dia., Cu |

Qualification: ☐ Plan ☒ Test Results

| Reliability Test | Conditions | Sample Size / Fail |
|------------------|----------------------|--------------------|
| **Autoclave 121C | 121C, 2 atm (96 Hrs) | 0/77 |
| **T/C -65C/150C | -65C/+150C (500 Cyc) | 0/77 |

Notes: **Tests require preconditioning sequence: MSL2-260C

Qualification Data #6: Approved September 2013

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device: TPS2540RTER (MSL 2-260C)

Package Construction Details

| | | | |
|----------------------------|--------------|-----------------|-------------------|
| Assembly Site: | CARZ | Mold Compound: | SID#441086 |
| # Pins-Designator, Family: | 16-RTE, WQFN | Mount Compound: | SID#435143 |
| Lead Finish: | NiPdAu | Bond Wire: | 1.98 Mil Dia., Cu |

Qualification: ☐ Plan ☒ Test Results

| Reliability Test | Conditions | Sample Size / Fail | | |
|--------------------------|----------------------|--------------------|-------|-------|
| | | Lot 1 | Lot 2 | Lot 3 |
| High Temp Operating Life | 125C (168 Hrs) | 77/0 | 77/0 | 77/0 |
| **T/C -65C/150C | -65C/+150C (500 Cyc) | 77/0 | -- | -- |

Notes: **Tests require preconditioning sequence: MSL2-260C

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

| Location | E-Mail |
|--------------|--|
| USA | PCNAmericasContact@list.ti.com |
| Europe | PCNEuropeContact@list.ti.com |
| Asia Pacific | PCNAsiaContact@list.ti.com |
| Japan | PCNJapanContact@list.ti.com |