



## Customer Information Notification

202107008I : PF502x New Products with NXP ATTJ Assembly Site Sourcing and Dimple QFN

**Note:** This notice is NXP Company Proprietary.

**Issue Date:** Sep 23, 2021 **Effective date:** Sep 24, 2021

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### Management summary

New PF5020, PF5023, and PF5024 product offerings with Assembly sourced from NXP ATTJ Tianjin, China for customer supply assurance, including dimple wettable flank QFN.

### Change Category

<input type="checkbox"/> Wafer Fab Process	<input type="checkbox"/> Assembly Process	<input type="checkbox"/> Product Marking	<input type="checkbox"/> Test Process	<input type="checkbox"/> Design
<input type="checkbox"/> Wafer Fab Materials	<input checked="" type="checkbox"/> Assembly Materials	<input type="checkbox"/> Mechanical Specification	<input type="checkbox"/> Test Equipment	<input type="checkbox"/> Errata
<input type="checkbox"/> Wafer Fab Location	<input checked="" type="checkbox"/> Assembly Location	<input type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Location	<input checked="" type="checkbox"/> Electrical spec./Test coverage
<input type="checkbox"/> Firmware	<input type="checkbox"/> Other			

## PCN Overview

### Description

NXP Semiconductors announces the Assembly site expansion with optimized QFN package for the PF502x Power Management IC devices associated with this notification, from current ASECL, Taiwan assembly site to NXP ATTJ Tianjin, China assembly site. The QFN package changes from step-cut wettable flank to dimple wettable flank version. Product data sheets are updated to document new orderable part numbers with dimple QFN, and package outline drawing.

New PF5020, PF5023 and PF5024 part numbers are offered for the NXP ATTJ assembled dimple QFN products. Current part numbers will undergo End-of-Life / Product Discontinuation, so customer migration to new part numbers is imperative.

The assembly site expansion to NXP ATTJ results in the following change summary:

- Change to dimple wettable flank QFN package from step-cut wettable flank QFN package
- Change to 7mil die thickness from 5mil die thickness
- Change to PPF lead frame from Cu lead frame with Sn plating
- Change to Henkel QMI519 die attach material from Hitachi EN4900
- Change to Hitachi CEL9220HF13CW mold compound material from Sumitomo G700LA
- Change of package outline drawing to incorporate standardized NXP ATTJ QFN package

- No change to wire type or wire diameter: identical at both assembly sites (PdCu / 33 um)
- No change to PCB solder mask pattern / stencil

The assembly site expansion to NXP ATTJ was successfully qualified adhering to NXP specifications.

Current ASECL step-cut QFN package outline drawing 98ASA01113D / SOT618-14 is attached, and can be accessed at: <https://www.nxp.com/docs/en/package-information/SOT618-14.pdf>

New ATTJ dimple QFN package outline drawing 98ASA01504D / SOT618-17(D) is attached, and can be accessed at: [https://www.nxp.com/docs/en/package-information/SOT618-17\(D\).pdf](https://www.nxp.com/docs/en/package-information/SOT618-17(D).pdf)

Data sheets are updated to document new orderable part numbers with dimple QFN, and package outline drawings, along with other technical clarification items. The revision history included in the updated data sheets provides a detailed description of the changes.

New PF5020 rev 3.0 data sheet can be accessed at: <https://www.nxp.com/docs/en/data-sheet/PF5020.pdf>

New PF5023 rev 3.0 data sheet can be accessed at: <https://www.nxp.com/docs/en/data-sheet/PF5023.pdf>

New PF5024 rev 3.0 data sheet can be accessed at: <https://www.nxp.com/docs/en/data-sheet/PF5024.pdf>

Please see the attached files for additional details.

Corresponding ZVEI Delta Qualification Matrix ID: SEM-PA-01, SEM-PA-04, SEM-PA-07, SEM-PA-11, SEM-PA-18, SEM-DS-02

#### **Reason**

Qualification of ATTJ Tianjin, China assembly site with dimple QFN optimization, is required for customer supply assurance.

#### **Identification of Affected Products**

New part numbers are created for ATTJ Tianjin assembled dimple QFN products.

Product assembly site, among other information, is reflected in the part marking trace code.

Please refer to the marking comparisons file in the change summary attachment.

#### **Anticipated Impact on Form, Fit, Function, Reliability or Quality**

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Updates to form and fit as described in the accompanying documentation. No impact to function, reliability or quality.

#### **Data Sheet Revision**

A new datasheet will be issued

#### **Disposition of Old Products**

PF5020, PF5023 and PF5024 product will be sourced from NXP ATTJ Tianjin, China assembly site with dimple QFN only.

#### **Contact and Support**

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For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

For all Quality Notification content inquiries, please contact your local NXP Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

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NXP Quality Management Team.

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Changed Orderable Part#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
PPF5020AMBA0E5	935377319699	PPF5020AMBA0E5	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
MPP5020AMBA0E5	935379663557	MPP5020AMBA0E5	PF5020	H(V)QFN40WF	SOT618-14	RFS	No	BLC4
MPP5020AMBA0ESR2	935379663528	MPP5020AMBA0ESR2	PF5020	H(V)QFN40WF	SOT618-14	RFS	No	BLC4
PPF5020AMBA0ESR2	935377319697	PPF5020AMBA0ESR2	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMBA4ESR2	935386332697	PPF5020AMBA4ESR2	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMBA4E5	935386332699	PPF5020AMBA4E5	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMBA4ESR2	935432051697	PPF5020AMBA4ESR2	PF5020, WF QFN6x6	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMBA4E5	935432051699	PPF5020AMBA4E5	PF5020, WF QFN6x6	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMBA4E5	935432054699	PPF5020AMBA4E5	PF5020, WF QFN6x6	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMBA4ESR2	935432054697	PPF5020AMBA4ESR2	PF5020, WF QFN6x6	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMBA6ESR2	935430009699	PPF5020AMBA6ESR2	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMBA6ESR2	935430009697	PPF5020AMBA6ESR2	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMA0ESR2	935377316697	PPF5020AMMA0ESR2	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMA0E5	935377316699	PPF5020AMMA0E5	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
MPP5020AMMA0ESR2	935379658528	MPP5020AMMA0ESR2	PF5020	H(V)QFN40WF	SOT618-14	RFS	No	BLC4
MPP5020AMMA0E5	935379658557	MPP5020AMMA0E5	PF5020	H(V)QFN40WF	SOT618-14	RFS	No	BLC4
PPF5020AMMA3ESR2	935378705697	PPF5020AMMA3ESR2	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMA3E5	935378705699	PPF5020AMMA3E5	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMA6ESR2	935388337697	PPF5020AMMA6ESR2	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMA6E5	935388337699	PPF5020AMMA6E5	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMA7E5	935389803699	PPF5020AMMA7E5	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
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PPF5020AMMA8E5	935394856699	PPF5020AMMA8E5	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMAAES	935416003699	PPF5020AMMAAES	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMAAESR2	935416003697	PPF5020AMMAAESR2	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMABESR2	935416005697	PPF5020AMMABESR2	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMABE5	935416005699	PPF5020AMMABE5	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMACES	935429709699	PPF5020AMMACES	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMACESR2	935429709697	PPF5020AMMACESR2	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
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PPF5020AMMAJESR2	935430189697	PPF5020AMMAJESR2	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5020AMMAJES	935430189699	PPF5020AMMAJES	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
MPP5020AVNA0ESR2	935402629528	MPP5020AVNA0ESR2	PF5020	H(V)QFN40WF	SOT618-14	RFS	No	BLC4
MPP5020AVNA0E5	935402629557	MPP5020AVNA0E5	PF5020	H(V)QFN40WF	SOT618-14	RFS	No	BLC4
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PPF5020AVNAHES	935429712699	PPF5020AVNAHES	PF5020	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
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PPF5023AMBA0E5	935381484699	PPF5023AMBA0E5	PF5023	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
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MPP5023AVNA0E5	935402632557	MPP5023AVNA0E5	PF5023	H(V)QFN40WF	SOT618-14	RFS	No	BLC4
MPP5024AMBA0ESR2	935377383528	MPP5024AMBA0ESR2	PF5024	H(V)QFN40WF	SOT618-14	RFS	No	BLC4
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PPF5024AMBA5E5	935386733699	PPF5024AMBA5E5	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
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PPF5024AMBA6E5	935386735699	PPF5024AMBA6E5	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMBA6ESR2	935386735697	PPF5024AMBA6ESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMBA7E5	935386737699	PPF5024AMBA7E5	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
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PPF5024AMBA8E5	935386773699	PPF5024AMBA8E5	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMBA9ESR2	935386345697	PPF5024AMBA9ESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
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PPF5024AMBAFES	935392391699	PPF5024AMBAFES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMBAFESR2	935392391697	PPF5024AMBAFESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
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PPF5024AMBANESR2	935399793697	PPF5024AMBANESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMBATESR2	935416007697	PPF5024AMBATESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
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PPF5024AMBAYESR2	935431272697	PPF5024AMBAYESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMBAYES	935431272699	PPF5024AMBAYES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAOESR2	935377442697	PPF5024AMMAOESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
MPF5024AMMAOESR2	935377324528	MPF5024AMMAOESR2	PF5024	H(V)QFN40WF	SOT618-14	RFS	No	BLC4
PPF5024AMMAOES	935377442699	PPF5024AMMAOES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
MPF5024AMMAOES	935377324557	MPF5024AMMAOES	PF5024	H(V)QFN40WF	SOT618-14	RFS	No	BLC4
PPF5024AMMABES	935388339699	PPF5024AMMABES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMABESR2	935388339697	PPF5024AMMABESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMACESR2	935387949697	PPF5024AMMACESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMACES	935387949699	PPF5024AMMACES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAEESR2	935389805697	PPF5024AMMAEESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAEES	935389805699	PPF5024AMMAEES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAFES	935394858699	PPF5024AMMAFES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAFESR2	935394858697	PPF5024AMMAFESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAJES	935395089699	PPF5024AMMAJES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAJESR2	935395089697	PPF5024AMMAJESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAMESR2	935398289697	PPF5024AMMAMESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAMES	935398289699	PPF5024AMMAMES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAPEESR2	935398292697	PPF5024AMMAPEESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
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PPF5024AMMAWESR2	935427687697	PPF5024AMMAWESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAWES	935427687699	PPF5024AMMAWES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAXESR2	935430185697	PPF5024AMMAXESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAXES	935430185699	PPF5024AMMAXES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAYESR2	935429118697	PPF5024AMMAYESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAYES	935429118699	PPF5024AMMAYES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAZESR2	935431289697	PPF5024AMMAZESR2	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
PPF5024AMMAZES	935431289699	PPF5024AMMAZES	PF5024	H(V)QFN40WF	SOT618-14	ASM	No	BLC4
MPF5024AVNAOESR2	935402612528	MPF5024AVNAOESR2	PF5024	H(V)QFN40WF	SOT618-14	RFS	No	BLC4
MPF5024AVNAOES	935402612557	MPF5024AVNAOES	PF5024	H(V)QFN40WF	SOT618-14	RFS	No	BLC4