

Qualification Test Results for PCN 2022-072-A: Additional final test at Amkor Technologies Philippines (ATP)

Change Team
2022-05-11



Qualification Test Results for PCN 2022-072-A: Additional final test at ATP



- › For this transfer of final test to ATP, the tester hardware were transferred from Infineon Technologies Singapore to Amkor Technologies Philippines.

- › The qualification procedure consists of the three major parts:
 - Buyoff of tester at ATP
 - Qualification of test process at ATP
 - Mark, Scan & Pack Qualification at ATP

- › Summary: All qualification tests are successfully performed and are **PASS**.

- › This buyoff procedure consists of the following steps:
 - ESD Check
 - Calibration
 - AC Check

All these steps were successfully performed => **PASS**

- › This qualification of test process consists of the following steps:
 - 100 times Loop Test
 - Correlation Run
 - Solderability Check
 - Binning Integrity check

All these steps were successfully performed => **PASS**

- › This qualification of test process consists of the following steps:
 - Vision System Capability
 - Peel Strength Test
 - Drop Test of final packing

All these steps were successfully performed => **PASS**



Part of your life. Part of tomorrow.

Product/process change notification

PCN N° 2022-072-A

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Dear customer,

Please find attached our Infineon Technologies AG PCN:

Additional final test at AMKOR Technologies Philippines (ATP) for PG-VQFN-24/-40/-48/ and -64 for XMC Controller

Important information for your attention:

- Please respond to this PCN by indicating your decision on the approval form, sign it and return to your sales partner before **2022-06-20**
- Infineon aligns with the widely recognized JEDEC STANDARD “**JESD46**“, which stipulates: **“Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.”**

Your prompt reply will help Infineon to assure a smooth and well-executed transition. If Infineon does not hear from your side by the due date, we will assume your full acceptance to this proposed change and its implementation.

Your attention and response to this matter is greatly appreciated.



On 16 April 2020, Infineon acquired Cypress.
We are now in the process of merging and consolidating our tools and processes for PCN, Information Notes, Errata and Product Discontinuance.
For further details, please visit our website:
<https://www.infineon.com/cms/en/about-infineon/company/cypress-acquisition/>

Infineon Technologies AG

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Product/process change notification

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► **Products affected**

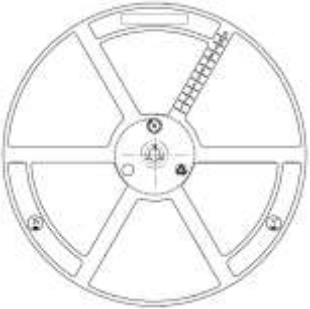
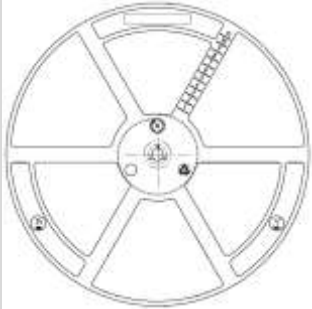
Please refer to attached affected product list 1_cip22072_A

► **Detailed change information**

Subject Additional final test to AMKOR Technologies Philippines (ATP) for PG-VQFN-24-19, PG-VQFN-40-13/-17, PG-VQFN-48-71/-73 and PG-VQFN-64-6 for XMC Controller

Reason Increase of capacity.

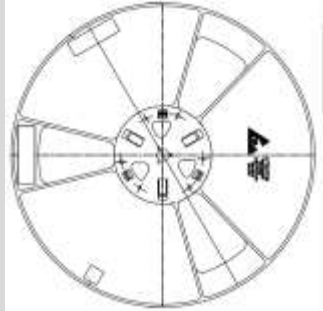
Description

<u>Old</u>	<u>New</u>
<ul style="list-style-type: none"> Final electrical test at IFX, Singapore 	<ul style="list-style-type: none"> Final electrical tes at IFX Singapore and Final electrical test at Amkor Technologies Philippines (ATP) ATP will be the main test-site and IFX Singapore is the back-up-site
<ul style="list-style-type: none"> Reel layout at IFX Singapore: 	<ul style="list-style-type: none"> Reel layout at IFX Singapore: 

Product/process change notification

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	<ul style="list-style-type: none"> ■ Reel layout at ATP: <div data-bbox="1082 495 1406 804" data-label="Image">  </div>
<ul style="list-style-type: none"> ■ MSP at IFX Singapore 	<ul style="list-style-type: none"> ■ MSP at IFX Singapore and ■ MSP at ATP

► Product identification

The traceability is given by Infineon working/production numbers

There will be no change of SP-numbers, therefore no source can be selected.

► Impact of change

No change of fit, form, function and reliability. The same testprograms are used as before.

► Attachments

1_cip22072_A	affected product list
2_cip22072A	qualification test results

► Time schedule

- Final qualification report
- First samples available
- Intended start of delivery

available

on request

For PG-VQFN-40-13 and PG-VQFN-48-73: **2022-08-15 or earlier**, if customer agrees

For PG-VQFN-24-19, PG-VQFN40-17, PG-VQFN-48-71 and PG-VQFN-64-6: **2022-08-30**

If you have any questions, please do not hesitate to contact your local sales office.

PCN 2022-072-A

Additional final test at AMKOR Technologies Philippines for PG-VQFN-24/-40/-48/
and -64 for XMC Controller



Affected products sold to DIGI-KEY (4002348)

Sales name	SP number	OPN	Package	Customer part number
XMC1100-Q024F0064 AB	SP001248396	XMC1100Q024F0064 ABXUMA1	PG-VQFN-24-19	XMC1100Q024F0064 ABXUMA1
XMC1302-Q024F0064 AB	SP001308178	XMC1302Q024F0064 ABXUMA1	PG-VQFN-24-19	XMC1302Q024F0064 ABXUMA1
XMC1302-Q024X0064 AB	SP001248444	XMC1302Q024X0064 ABXUMA1	PG-VQFN-24-19	XMC1302Q024X0064 ABXUMA1
XMC1302-Q040X0200 AB	SP001306868	XMC1302Q040X0200 ABXUMA1	PG-VQFN-40-13	XMC1302Q040X0200 ABXUMA1
XMC1402-Q040X0032 AA	SP001308144	XMC1402Q040X0032 AAXUMA1	PG-VQFN-40-17	XMC1402Q040X0032 AAXUMA1
XMC1402-Q040X0128 AA	SP001306902	XMC1402Q040X0128 AAXUMA1	PG-VQFN-40-17	XMC1402Q040X0128 AAXUMA1
XMC1402-Q048X0128 AA	SP001308156	XMC1402Q048X0128 AAXUMA1	PG-VQFN-48-73	XMC1402Q048X0128 AAXUMA1
XMC1403-Q064X0200 AA	SP001306924	XMC1403Q064X0200 AAXUMA1	PG-VQFN-64-6	XMC1403Q064X0200 AAXUMA1
XMC1404-Q048X0200 AA	SP001306912	XMC1404Q048X0200 AAXUMA1	PG-VQFN-48-73	XMC1404Q048X0200 AAXUMA1
XMC1404-Q064X0200 AA	SP001306928	XMC1404Q064X0200 AAXUMA1	PG-VQFN-64-6	XMC1404Q064X0200 AAXUMA1
XMC4108-Q48K64 BA	SP001279434	XMC4108Q48K64BAX UMA1	PG-VQFN-48-71	XMC4108Q48K64BAX UMA1
XMC4200-Q48K256 BA	SP001171974	XMC4200Q48K256BA XUMA1	PG-VQFN-48-71	XMC4200Q48K256BA XUMA1



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Additional final test at Amkor Technologies Philippines (ATP) for PG-VQFN-24/-40/-48 and -64 for XMC controllers

Sales name	SP number	OPN	Package
XMC0001SC-Q040X AA	SP005184602	XMC0001SCQ040XAAXUMA1	PG-VQFN-40-17
XMC0002SC-Q024X AB	SP005184606	XMC0002SCQ024XABXUMA1	PG-VQFN-24-19
XMC0003SC-Q040X	SP005589816	XMC0003SCQ040XXUMA2	PG-VQFN-40-17
XMC1100-Q024F0008 AB	SP001344584	XMC1100Q024F0008ABXUMA1	PG-VQFN-24-19
XMC1100-Q024F0016 AB	SP001308064	XMC1100Q024F0016ABXUMA1	PG-VQFN-24-19
XMC1100-Q024F0032 AB	SP001344588	XMC1100Q024F0032ABXUMA1	PG-VQFN-24-19
XMC1100-Q024F0064 AB	SP001248396	XMC1100Q024F0064ABXUMA1	PG-VQFN-24-19
XMC1100-Q040F0016 AB	SP001344590	XMC1100Q040F0016ABXUMA1	PG-VQFN-40-13
XMC1100-Q040F0032 AB	SP001344592	XMC1100Q040F0032ABXUMA1	PG-VQFN-40-13
XMC1100-Q040F0064 AB	SP001248398	XMC1100Q040F0064ABXUMA1	PG-VQFN-40-13
XMC1202-Q024X0032 AB	SP001248436	XMC1202Q024X0032ABXUMA1	PG-VQFN-24-19
XMC1202-Q040X0016 AB	SP001343812	XMC1202Q040X0016ABXUMA1	PG-VQFN-40-13
XMC1202-Q040X0032 AB	SP001248438	XMC1202Q040X0032ABXUMA1	PG-VQFN-40-13
XMC1301-Q024F0016 AB	SP001248440	XMC1301Q024F0016ABXUMA1	PG-VQFN-24-19
XMC1301-Q040F0008 AB	SP001344754	XMC1301Q040F0008ABXUMA1	PG-VQFN-40-13
XMC1301-Q040F0032 AB	SP001248442	XMC1301Q040F0032ABXUMA1	PG-VQFN-40-13
XMC1302-Q024F0032 AB	SP001344774	XMC1302Q024F0032ABXUMA1	PG-VQFN-24-19
XMC1302-Q024F0064 AB	SP001308178	XMC1302Q024F0064ABXUMA1	PG-VQFN-24-19
XMC1302-Q024X0032 AB	SP001344778	XMC1302Q024X0032ABXUMA1	PG-VQFN-24-19
XMC1302-Q024X0032 AB	SP005572782	XMC1302Q024X0032ABXUMA2	PG-VQFN-24-19
XMC1302-Q024X0032 AB	SP005626674	XMC1302Q024X0032ABXUMA3	PG-VQFN-24-19
XMC1302-Q024X0064 AB	SP001248444	XMC1302Q024X0064ABXUMA1	PG-VQFN-24-19
XMC1302-Q040X0032 AB	SP001284750	XMC1302Q040X0032ABXUMA1	PG-VQFN-40-13
XMC1302-Q040X0064 AB	SP001344782	XMC1302Q040X0064ABXUMA1	PG-VQFN-40-13
XMC1302-Q040X0128 AB	SP001248446	XMC1302Q040X0128ABXUMA1	PG-VQFN-40-13
XMC1302-Q040X0200 AB	SP001306868	XMC1302Q040X0200ABXUMA1	PG-VQFN-40-13
XMC1401-Q048F0064 AA	SP001381078	XMC1401Q048F0064AAXUMA1	PG-VQFN-48-73
XMC1402-Q040X0032 AA	SP001308144	XMC1402Q040X0032AAXUMA1	PG-VQFN-40-17
XMC1402-Q040X0064 AA	SP001308142	XMC1402Q040X0064AAXUMA1	PG-VQFN-40-17
XMC1402-Q040X0128 AA	SP001306902	XMC1402Q040X0128AAXUMA1	PG-VQFN-40-17
XMC1402-Q040X0200 AA	SP001626302	XMC1402Q040X0200AAXUMA1	PG-VQFN-40-17
XMC1402-Q048X0032 AA	SP001308160	XMC1402Q048X0032AAXUMA1	PG-VQFN-48-73
XMC1402-Q048X0064 AA	SP001308158	XMC1402Q048X0064AAXUMA1	PG-VQFN-48-73

XMC1402-Q048X0128 AA	SP001308156	XMC1402Q048X0128AAXUMA1	PG-VQFN-48-73
XMC1402-Q064X0064 AA	SP001308176	XMC1402Q064X0064AAXUMA1	PG-VQFN-64-6
XMC1402-Q064X0200 AA	SP001306918	XMC1402Q064X0200AAXUMA1	PG-VQFN-64-6
XMC1403-Q040X0064 AA	SP001587990	XMC1403Q040X0064AAXUMA1	PG-VQFN-40-17
XMC1403-Q040X0200 AA	SP001587996	XMC1403Q040X0200AAXUMA1	PG-VQFN-40-17
XMC1403-Q048X0064 AA	SP001308154	XMC1403Q048X0064AAXUMA1	PG-VQFN-48-73
XMC1403-Q048X0128 AA	SP001308152	XMC1403Q048X0128AAXUMA1	PG-VQFN-48-73
XMC1403-Q048X0200 AA	SP001308150	XMC1403Q048X0200AAXUMA1	PG-VQFN-48-73
XMC1403-Q064X0128 AA	SP001308170	XMC1403Q064X0128AAXUMA1	PG-VQFN-64-6
XMC1403-Q064X0200 AA	SP001306924	XMC1403Q064X0200AAXUMA1	PG-VQFN-64-6
XMC1404-Q040X0200 AA	SP002157820	XMC1404Q040X0200AAXUMA1	PG-VQFN-40-17
XMC1404-Q048X0064 AA	SP001308148	XMC1404Q048X0064AAXUMA1	PG-VQFN-48-73
XMC1404-Q048X0128 AA	SP001308146	XMC1404Q048X0128AAXUMA1	PG-VQFN-48-73
XMC1404-Q048X0200 AA	SP001306912	XMC1404Q048X0200AAXUMA1	PG-VQFN-48-73
XMC1404-Q064X0064 AA	SP001308168	XMC1404Q064X0064AAXUMA1	PG-VQFN-64-6
XMC1404-Q064X0200 AA	SP001306928	XMC1404Q064X0200AAXUMA1	PG-VQFN-64-6
XMC14S2-Q040X0064 AA	SP001606456	XMC14S2Q040X0064AAXUMA1	PG-VQFN-40-17
XMC4100-Q48K128 BA	SP001279430	XMC4100Q48K128BAXUMA1	PG-VQFN-48-71
XMC4104-Q48F64 BA	SP001279438	XMC4104Q48F64BAXUMA1	PG-VQFN-48-71
XMC4104-Q48K128 BA	SP001279444	XMC4104Q48K128BAXUMA1	PG-VQFN-48-71
XMC4104-Q48K64 BA	SP001279440	XMC4104Q48K64BAXUMA1	PG-VQFN-48-71
XMC4108-Q48K64 BA	SP001279434	XMC4108Q48K64BAXUMA1	PG-VQFN-48-71
XMC4200-Q48F256 BA	SP001279446	XMC4200Q48F256BAXUMA1	PG-VQFN-48-71
XMC4200-Q48K256 BA	SP001171974	XMC4200Q48K256BAXUMA1	PG-VQFN-48-71
XMC4200-Q48K256 BA	SP005421793	XMC4200Q48K256BAXUMA2	PG-VQFN-48-71
XMC6521SC-Q040X	SP005559520	XMC6521SCQ040XXUMA1	PG-VQFN-40-17
XMC6521SC-Q040X AA	SP003038016	XMC6521SCQ040XAAXUMA1	PG-VQFN-40-17
XMC6522SC-Q040X	SP005571257	XMC6522SCQ040XXUMA1	PG-VQFN-40-17
XMC65IKSC-Q040X AA	SP005353236	XMC65IKSCQ040XAAXUMA1	PG-VQFN-40-17
XMC65IKSC-Q040X AA	SP005593568	XMC65IKSCQ040XAAXUMA2	PG-VQFN-40-17
XMC7201SC-Q024X AB	SP003038050	XMC7201SCQ024XABXUMA1	PG-VQFN-24-19
XMC7501SC-Q040X AA	SP003038020	XMC7501SCQ040XAAXUMA1	PG-VQFN-40-17