



# Apollo3 Blue Plus

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN Number:	CN-AP3C0-02262024	Effective Date of Change:	2024/Mar
Issue Date:	02/26/2024	Running Change?	<input checked="" type="checkbox"/> *Yes <input type="checkbox"/> No
Contact:	Yvonne Chen	*If yes, add notes:	Customer will receive products manufactured by two sites during transition time.
Email:	<a href="mailto:ychen@ambiq.com">ychen@ambiq.com</a>	Attachment?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

### Subject of Change

Add 2nd source site, SPIL (Siliconware Precision Industries Co., Ltd.), for Apollo3 Blue Plus.

### Description of Change

- Design   
 Assembly   
 Electrical Specification   
 Other:  
 Wafer Fab   
 Test   
 Mechanical Specification

### Reason for Change

Add 2nd source site to prevent production discontinuity: Capacity expansion, and Business contingency plan. All external package dimension remains the same.

### Part Numbers Affected

AMA3B2KK-KBR

### Change Identification

- Product Mark   
 Label   
 Data Code   
 Other:

- Product Mark: "A" code means "Assembly site"

Product Name	Part Number	Top Side Marking	ASECL	SPIL
Apollo3 Blue Plus	AMA3B2KK-KBR		A=D	A=P

### Risk Assessment:

Apollo3 Blue Plus assembled by SPIL had passed the package reliability qualification, so it's no risk.

### Reliability/Qualification Summary

The package reliability qualification is passed. Please refer to qualification report in Attachment 1.

**Customer Acknowledgement of Receipt**

- Ambiq requires your acknowledgement of this notification within 30 days
- As this change belongs to notification-only PCN, no customer approval is required
- Ambiq will implement the change after the effective date

**Qualification Results**

The package reliability qualification is passed.

Detailed qualification condition, please refer to qualification report in Attachment 1.

Test Item	Conditions	Lot No	Sample Size	Results
Pre-Conditioning MSL 3	JESD22-A113, MSL-3 Precon.	3	75	<b>PASS</b>
Temperature Cycle (TC)	JESD22-A104, TC condition B (-55C – 125C) for 700 Cycles	3	25	<b>PASS</b>
High Temp Storage Life (HTSL)	JESD22-A103; 150C, 1000hrs	3	25	<b>PASS</b>
Biased Highly Accelerated Stress Test (HAST)	EIA/JESD22-A110, +130°C / 85%R.H. Biased for 96hrs	3	25	<b>PASS</b>
Unbiased Highly Accelerated Stress Test (UHAST)	EIA/JESD22-A118, +130°C / 85%R.H. Unbiased for 96hrs	3	25	<b>PASS</b>