

# Product Change Notification

## PCN-220402

### Description of Change

1. Intel decided to discontinue **all Enpirion Power products.**
  - **2021/9/17:** Intel PSG announced to phase out all Enpirion power IC due to product strategy.
  - **2021/12/1:** Advantech estimated & issued LTB PO for the demand from 2022 to 2024.
  - **2021/12/25:** Intel issued the statement that
    - 1) Intel can't guarantee they can fulfill all LTB orders due to the unsustainable wafer supply.
    - 2) Intel will raise the price for all Enpirion power IC from 2022.
      - a. 3x increase effective on 2022/4/10
      - b. 3x increase effective on 2022/10/9 (results in total 9x increase over pre-April 10 pricing)
      - c.  $\geq 33\%$  increase towards the end of 2022 (results in total **12x** increase over pre-April 10 pricing) New price might be effective in Dec, 22 or Jan, 23.
  - **2023/3/31** Last-Time-Ship of Enpirion power IC

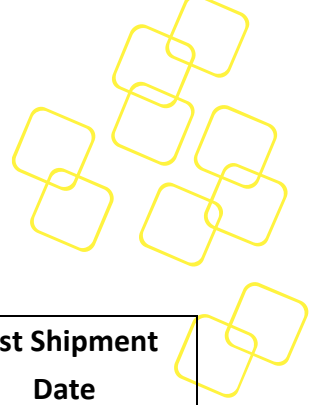
2. **SOM-7569 B1 Series** are affected by this Enpirion power IC EOL issue  
So, we re-design B2 PCB to integrate TI PMIC, power IC as the replacement to keep the supply.  
Meanwhile, we also change the EOL & long lead time parts to reduce customers' efforts in the future.

### Customer Impact of Change and Recommended Action

**1. B1 → B2:** Please determine the remaining demands & issue LTB PO for SOM-7569 B1 by **2022/12/27**. Based on the PO customers provide, the last shipment date is **2023/6/27**. However, we won't be able to guarantee the supply on B1 backlog since Intel emphasized they are unable to fulfill all of our backlog many times.

**2. SOM-7569 B1 Backlog:** If customers still need some B1 supplies, please approve & issue TPS to add the 2<sup>nd</sup> source for Onsemi MOSFET, 1310003913 & Onsemi load switch, 1410023743-01 to improve the fulfilment from June.

*The design for these on B1 & B2 is exactly the same. So, we can adopt the B2 report to add or adopt the 2<sup>nd</sup> sources on B1. Or, factory will push out the backlog to Q4, 2022 and set lead time as 1 year for new PO.*



## Product Affected

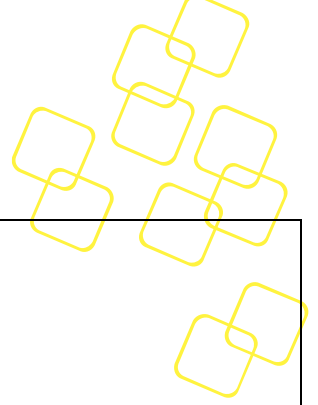
Model	EOL Announcement	Last Time Buy Date	Last Shipment Date
<b>SOM-7569 B1 series</b> (COM Express Compact)	<b>2022/04/30</b>	<b>2022/12/27</b>	<b>2023/06/27</b>
All derivate product series, T-P/N, and fixed BOM P/N based on above STD-P/N			

## Replacement

- Suggest customers to verify & adopt SOM-7569 B2 series asap.

Function	Qty	Location	SOM-7569 B1		Mods	SOM-7569 B2	
			P/N	MPN		P/N	MPN
1.8V POWER	1	SU43	1410021838	Enpirion EP53F8QI Buck Converter 2.4-5.5V 1.5A	Changed	1410026524-01	TI TPS82085SILR 2.5-6V 3A Step-Down Converter uS
	2	C317,C323	1100009229	MLCC X7R 1uF 10% 6.3V SMD 0402	Changed	1100000332	MLCC X7R 0.1uF 10% 16V SMD 0402
	1	R452	1000012719	TKFR 240K 1% 1/16W SMD 0402	Changed	105A52003A	TKFR 200K 1% 1/16W SMD 0402
	1	R454	1000000762	TKFR 120K 1% 1/16W SMD 0402	Changed	1000003461	TKFR 160K 1% 1/16W SMD 0402
1.24V POWER	1	SU44	1410023137-01	Enpirion EN5339QI Buck PWM Converter 3A SMD QF	Changed	1410026524-01	TI TPS82085SILR 2.5-6V 3A Step-Down Converter uS
	1	R459	1000012260	TKFR 348K 1% 1/16W SMD 0402	Changed	1000001692	TKFR 88.7K 1% 1/16W SMD 0402
	1	R461	1000000758	TKFR 324K 1% 1/16W SMD 0402	Changed	1000003461	TKFR 160K 1% 1/16W SMD 0402
3.3-> 1.2SB_rdc	1	SQ9	1410027430-01	LDO AME8818DEEVADJZ 300mA 2.5-5.5V ADJ	Changed	1410031363-01	LDO-adj AP7330D-W5-7 1.8-5.5V 0.3A SOT25 5P
1.2SB	1	R292	105A50103A	TKFR 10K 1% 1/16W SMD 0402	Changed	1000007788	TKFR 3.4K 1% 1/16W SMD 0402
	1	R294	1000008055	TKFR 43K 1% 1/16W SMD 0402	Changed	1000000432	TKFR 6.8K 1% 1/16W SMD 0402
	1	SQ4	1310003913	ON-SEMI MOSFET N/P-CH FDG6332C 0.7A 20V	Add 2nd Source	1310006979-01	CYTECH, N/P-CH MTA300C02KS6R-0-T1-G 20V
	3	SU42,SU48,SU49	1410023743-01	Onsemi NCP45520IMNTWG-H load sw SMD DFN 8P	Add 2nd Source	1410023743-02	Diodes DML3006LFDS-7 load sw w/ PG V-DFN2020-8 8P

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**Potential impacts to customers:**

- PCB: Changed from [19A6756911-01](#), B101-2 to be [19A6756912-01](#), B201-1
- BIOS: No change required
- EC Firmware: No change required
- LAN Firmware: No change required
- OS: No change required
- Driver: No change required

**Ordering Information:**

B1 P/N	SKU	B2 P/N
SOM-7569BNBCC-S2B1	N4200E/4GB nECC/32GB eMMC	<a href="#">SOM-7569BNBCC-S2B2</a>
SOM-7569BN0CC-S1B1	N3350E/4GB nECC	<a href="#">SOM-7569BN0CC-S1B2</a>
SOM-7569BCBCC-S6B1	E3950/4GB ECC/32GB eMMC	<a href="#">SOM-7569BCBCC-S6B2</a>
SOM-7569BC0CC-S3B1	E3930F/4GB ECC	<a href="#">SOM-7569BC0CC-S3B2</a>
SOM-7569CCBCC-S6B1	E3950/8GB ECC/32GB eMMC	<a href="#">SOM-7569CCBCC-S6B2</a>
SOM-7569CCBXC-S6B1	E3950/8GB ECC/32GB eMMC/-40~85	<a href="#">SOM-7569CCBXC-S6B2</a>
SOM-7569BCBXC-S5B1	E3940/4GB ECC/32GB eMMC/-40~85	<a href="#">SOM-7569BCBXC-S5B2</a>
SOM-7569BC0XC-S3B1	E3930/4GB ECC/-40~85	<a href="#">SOM-7569BC0XC-S3B2</a>

**Key Information & Milestones:**

1. ECOM number to **phase out SOM-7569 B1 Models**: [EPO- 030160](#)

ECOM released date: 2022/12/20

Last Time Buy date: 2022/12/27

2. ECOM for all **SOM-7569 B1 standard SKUs to add the 2<sup>nd</sup> source** for Onsemi MOSFET, 1310003913 & Onsemi load switch, 1410023743-01: Will be released & effective by 2022/5/20.

For all related **T parts & fixed BOM**, pls help to get customers’s approvals to issue TPS & ECOM accordingly.