Product Change Notice

PCN #: PCNE21100701000	Ver. 1.0	Issue Date: 2021/10/07

Type of Change: Product Design Change

Detailed Description of Change:

This PCN is applicable to the ATP N600 Series NVMe M.2 2280 SSD including both PLP & Non-PLP solution.

ATP has identified certain at-risk components that are affected by the global IC shortage and will be for the foreseeable future. ATP has made the decision to implement design changes which allow for the use of components with multiple sources and better long-term supply stability.

Quality Spec Change: ■ No □ Yes

Function Spec Change: ■ No □ Yes

Reliability Spec Change: ■ No □ Yes

Detailed Description of Change:

1. **Voltage Converter**

Modified PCB design and solder mask to accommodate different packages from multiple converter manufactures.

2. **NAND Flash Power Switch**

The current power load switch, which turns off flash power when the SSD enters low power state, will be replaced with MOSFETs in the new design, while maintaining identical functionality.

Products Affected & Replacements:

1. The affected P/Ns are listed in the PCN for your reference.

2. The product comparison listed as below.

	Current Design	New Design
Converter supplier	TI	Multiple sources
NAND Flash Power Switch Solution	Load Switch	Discrete MOSFET

Method to Distinguish Change:

New part numbers are assigned to differentiate between current and new product versions.

Implementation Date: 2021/10/31

Forecasted Milestones:

Milestone	Schedule
Qualification Samples	Oct/31, 2021

Recommended Action:

ATP suggests that a minimum re-qualification be required, especially with old PNs that previously adopted Micron 64L 3D TLC NAND B16A.

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Affected Product P/N List:

Form Factor	Description	Affected PNs	New design with Micron B16A NAND
NVMe M.2 2280 (Non-PLP)	120GB, TLC SSD	AF120GSTJA-8BAXX AF120GSTJA-8BBXX (SED) AF120GSTJA-8BAIX (I-Temp) AF120GSTJA-8BBIX (SED/ I-Temp)	AF120GSTJA-8BEXX AF120GSTJA-8BFXX (SED) AF120GSTJA-8BEIX (I-Temp) AF120GSTJA-8BFIX (SED/ I-Temp)
	240GB, TLC SSD	AF240GSTJA-8BAXX AF240GSTJA-8BBXX (SED) AF240GSTJA-8BAIX (I-Temp) AF240GSTJA-8BBIX (SED/ I-Temp)	AF240GSTJA-8BEXX AF240GSTJA-8BFXX (SED) AF240GSTJA-8BEIX (I-Temp) AF240GSTJA-8BFIX (SED/ I-Temp)
	480GB, TLC SSD	AF480GSTJA-8BAXX AF480GSTJA-8BBXX (SED) AF480GSTJA-8BAIX (I-Temp) AF480GSTJA-8BBIX (SED/ I-Temp)	AF480GSTJA-8BEXX AF480GSTJA-8BFXX (SED) AF480GSTJA-8BEIX (I-Temp) AF480GSTJA-8BFIX (SED/ I-Temp)
	960GB, TLC SSD	AF960GSTJA-8BAXX AF960GSTJA-8BBXX (SED) AF960GSTJA-8BAIX (I-Temp) AF960GSTJA-8BBIX (SED/ I-Temp)	AF960GSTJA-8BEXX AF960GSTJA-8BFXX (SED) AF960GSTJA-8BEIX (I-Temp) AF960GSTJA-8BFIX (SED/ I-Temp)
	1.92TB, TLC SSD	AF1T92STJA-8BAXX AF1T92STJA-8BBXX (SED) AF1T92STJA-8BAIX (I-Temp) AF1T92STJA-8BBIX (SED/ I-Temp)	AF1T92STJA-8BCXX AF1T92STJA-8BDXX (SED) AF1T92STJA-8BCIX (I-Temp) AF1T92STJA-8BDIX (SED/ I-Temp)

Form Factor	Description	Affected PNs	New design with Micron B16A NAND
NVMe M.2 2280 (PLP)	120GB, TLC SSD	AF120GSTJA-8BAXP AF120GSTJA-8BBXP (SED) AF120GSTJA-8BAIP (I-Temp) AF120GSTJA-8BBIP (SED/ I-Temp)	AF120GSTJA-8BEXP AF120GSTJA-8BFXP (SED) AF120GSTJA-8BEIP (I-Temp) AF120GSTJA-8BFIP (SED/ I-Temp)
	240GB, TLC SSD	AF240GSTJA-8BAXP AF240GSTJA-8BBXP (SED) AF240GSTJA-8BAIP (I-Temp) AF240GSTJA-8BBIP (SED/ I-Temp)	AF240GSTJA-8BEXP AF240GSTJA-8BFXP (SED) AF240GSTJA-8BEIP (I-Temp) AF240GSTJA-8BFIP (SED/ I-Temp)
	480GB, TLC SSD	AF480GSTJA-8BAXP AF480GSTJA-8BBXP (SED) AF480GSTJA-8BAIP (I-Temp) AF480GSTJA-8BBIP (SED/ I-Temp)	AF480GSTJA-8BEXP AF480GSTJA-8BFXP (SED) AF480GSTJA-8BEIP (I-Temp) AF480GSTJA-8BFIP (SED/ I-Temp)
	960GB, TLC SSD	AF960GSTJA-8BAXP AF960GSTJA-8BBXP (SED) AF960GSTJA-8BAIP (I-Temp) AF960GSTJA-8BBIP (SED/ I-Temp)	AF960GSTJA-8BEXP AF960GSTJA-8BFXP (SED) AF960GSTJA-8BEIP (I-Temp) AF960GSTJA-8BFIP (SED/ I-Temp)
	1.92TB, TLC SSD	AF1T92STJA-8BAXP AF1T92STJA-8BBXP (SED) AF1T92STJA-8BAIP (I-Temp) AF1T92STJA-8BBIP (SED/ I-Temp)	AF1T92STJA-8BCXP AF1T92STJA-8BDXP (SED) AF1T92STJA-8BCIP (I-Temp) AF1T92STJA-8BDIP (SED/ I-Temp)

Should you have any issues with the timeline or content of this change, please contact ATP representative **within 20 days**. No response will be deemed as customer's acceptance of the change and the change will be implemented pursuant to the milestones set forth in this PCN.