Product Change Notification – Minor change

PCN #: PCN22-0034	**Rev:** 1.0	**Issue Date:** March 16, 2022

Purpose of notification:	Change of voltage regulator
Type of notification:	Minor change, for informational notice only

Detailed Description:

This document informs about a BOM change of the X-600s slimSATA product series and provides advice on the implications as well as on any requalification effort for affected customers.

Swissbit has been notified that Intel is ceasing production of the voltage regulators currently used in the above mentioned product series. Swissbit has selected new fit-for-purpose voltage regulators, which also require a minimal PCB adjustment.

	Current voltage regulators	New voltage regulators	New voltage regulator (used in X-600s only)
Supplier	Intel	Torex	MPS
Continuous output current	0.6A	1A	2A
Operating range	2.4 V – 5.5 V	2.5 V – 5.5 V	2.5 V – 5.5 V
Operating Temperature Range	–40 to +85°C	–40 to +105°C	–40 to +85°C
Output voltage	Adjustable	Fixed	Adjustable
Package Size	2.5mm x 2.25mm x 1.1mm	2.5mm x 2.0mm x 1.04mm	1.6mm x 1.2mm x 1.1mm

In parallel with the replacement of the regulator for the Flash I/O supply, a load switch was removed and a LDO was added. This measure reduces the current consumption and improves the quality of the Flash I/O supply.
The new MPS voltage regulator used on the X-600s series additionally requires an external inductance.

Swissbit insures no change of form and fit and function compatibility. The performance values will not change.
Swissbit insures full compliance and backward compatibility with the previous version.

Quality impact:	No impact

Reliability impact:	No impact

Products affected:

Series	Part Number	New Part Number
X-600s	SFSA016GV1AA2T0-I-DB-216-STD	No change, traceability over lot code
X-600s	SFSA016GV1AA2T0-C-DB-216-STD	No change, traceability over lot code
X-600s	SFSA016GV3AA2T0-I-DB-216-HU1	No change, traceability over lot code
X-600s	SFSA016GV3AA2T0-I-DB-226-STD	No change, traceability over lot code
X-600s	SFSA016GV3AA2T0-C-DB-226-STD	No change, traceability over lot code
X-600s	SFSA032GV1AA4T0-I-DB-216-STD	No change, traceability over lot code
X-600s	SFSA032GV1AA4T0-C-DB-216-STD	No change, traceability over lot code
X-600s	SFSA032GV3AA4T0-I-DB-226-STD	No change, traceability over lot code
X-600s	SFSA032GV3AA4T0-C-DB-226-STD	No change, traceability over lot code
X-600s	SFSA032GV1AA4T0-I-DB-216-DS1	No change, traceability over lot code
X-600s	SFSA064GV1AA4T0-I-QC-216-STD	No change, traceability over lot code
X-600s	SFSA064GV1AA4T0-C-QC-216-STD	No change, traceability over lot code
X-600s	SFSA064GV3AA4T0-I-QC-226-STD	No change, traceability over lot code
X-600s	SFSA064GV3AA4T0-C-QC-226-STD	No change, traceability over lot code

Product Change Notification – Minor change

X-600s	SFSA064GV3AA4T0-I-QC-216-STC	No change, traceability over lot code
X-600s	SFSA128GV1AA4T0-I-NC-216-STD	No change, traceability over lot code
X-600s	SFSA128GV1AA4T0-C-NC-216-STD	No change, traceability over lot code
X-600s	SFSA128GV3AA4T0-I-NC-226-STD	No change, traceability over lot code
X-600s	SFSA128GV3AA4T0-C-NC-226-STD	No change, traceability over lot code

Implementation date:	The plan implementation date is July 2022.
Recommended action:	No action required. Please contact your local Swissbit sales representative for support in case of any questions.

IMPORTANT NOTE:
Swissbit – as a provider of industrial products – announces and informs about every change in the product hardware and firmware. We always test backwards compatibility and assure best quality, reliability and transparency for our customers. We apologize for any inconvenience caused.

This Minor Change PCN serves as an informational notice and is an optional information in accordance with JEDEC J-STD-046.