

Product Notification Form

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| PCN #: PCN18-0040 | Rev: 1.0 | Issue Date: January 10th, 2019 |
| Type of Change: Improved Firmware for new design ins and product line maintenance <input type="checkbox"/> minor / <input checked="" type="checkbox"/> major | | |
| Detailed Description of Change: This product change notification is to inform you about a firmware update for X-60m (M0-300 mSATA), X-60s (M0-297 SLIM SATA), X-60m.2 (M.2 22xx) and F-60 (CFast) series (MLC) with capacities exclusively up to and including 480GB (extended capacity 512GB), which use firmware SBR11015 (FW1) . The firmware SBR12055 (FW2) has been improved as follows: <ul style="list-style-type: none"> • S.M.A.R.T. value initialization improvement for a high-frequency status check (several times per hour) • Garbage collection priority increase for constant write applications • Routine maintenance updates to ensure long service life of the product line (configuration and support options) Swissbit has completed its internal testing and has qualified the new firmware to ensure full compatibility. We highly recommend to switch to the new firmware revision. The previous firmware (FW1) will still be available for approved customer applications. | | |
| Quality impact: <input type="checkbox"/> minor / <input type="checkbox"/> major / <input checked="" type="checkbox"/> no | | |
| Reliability impact: <input checked="" type="checkbox"/> minor / <input type="checkbox"/> major / <input type="checkbox"/> no Eliminates the risk of replacement blocks becoming scarce in constant write applications. | | |

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Products affected:

| Series | Current Part Number | New Part Number |
|---------|------------------------------|------------------------------|
| F-60 | SFCAdddGHgAAxTO-t-cc-216-STD | SFCAdddGHgAAxTO-t-cc-226-STD |
| X-60m | SFSAdddGUgAAxTO-t-cc-216-STD | SFSAdddGUgAAxTO-t-cc-226-STD |
| | SFSAdddGUgAAxTO-t-cc-216-EXT | SFSAdddGUgAAxTO-t-cc-226-EXT |
| X-60s | SFSAdddGVgAAxTO-t-cc-216-STD | SFSAdddGVgAAxTO-t-cc-226-STD |
| X-60m.2 | SFSAdddGMgAAxTO-t-cc-216-STD | SFSAdddGMgAAxTO-t-cc-226-STD |
| | SFSAdddGMgAAxTO-t-cc-416-STD | SFSAdddGMgAAxTO-t-cc-426-STD |
| | SFSAdddGMgAAxTO-t-cc-516-STD | SFSAdddGMgAAxTO-t-cc-526-STD |
| | SFSAdddGMgAAxTO-t-cc-616-STD | SFSAdddGMgAAxTO-t-cc-626-STD |
| | SFSAdddGMgAAxTO-t-cc-616-EXT | SFSAdddGMgAAxTO-t-cc-626-EXT |

d = drive capacity; x = flash chip qty; t = temperature grade C or I; cc = chip configuration

Implementation date: January 10th, 2019

Products with new firmware can be ordered immediately. Products with old firmware remain orderable for approved customer applications.

Recommended action: Qualify new item with improved firmware to ensure highest reliability and lifetime in host system

Should you have any questions or concerns with the content of this change, please contact the Swissbit PCN team at customer.pcn@swissbit.com within 30 days. No response will be deemed as customer's acceptance of the change and the change will be implemented pursuant to the implementation date set forth in this PCN.

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.

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Products affected:

| Series | Current ERP# | Current Part Number | New ERP# | New Part Number |
|--------|--------------|------------------------------|------------------------------|------------------------------|
| F-60 | 605225 | SFCA008GH1AA1T0-I-GS-216-STD | 606498 | SFCA008GH3AA1T0-I-GS-226-STD |
| | 605389 | SFCA008GH1AA1T0-C-GS-216-STD | 606499 | SFCA008GH3AA1T0-C-GS-226-STD |
| | 605255 | SFCA016GH1AA2T0-I-GS-216-STD | 606500 | SFCA016GH3AA2T0-I-GS-226-STD |
| | 605390 | SFCA016GH1AA2T0-C-GS-216-STD | 606501 | SFCA016GH3AA2T0-C-GS-226-STD |
| | 605227 | SFCA030GH1AA2T0-I-GS-216-STD | 606502 | SFCA030GH3AA2T0-I-GS-226-STD |
| | 605391 | SFCA030GH1AA2T0-C-GS-216-STD | 606503 | SFCA030GH3AA2T0-C-GS-226-STD |
| | 605228 | SFCA060GH1AA2T0-I-LB-216-STD | 606504 | SFCA060GH3AA2T0-I-LB-226-STD |
| | 605386 | SFCA060GH1AA2T0-C-LB-216-STD | 606505 | SFCA060GH3AA2T0-C-LB-226-STD |
| | 605229 | SFCA120GH1AA2T0-I-HC-216-STD | 606506 | SFCA120GH3AA2T0-I-HC-226-STD |
| | 605387 | SFCA120GH1AA2T0-C-HC-216-STD | 606507 | SFCA120GH3AA2T0-C-HC-226-STD |
| | 605230 | SFCA240GH1AA2T0-I-OC-216-STD | 606508 | SFCA240GH3AA2T0-I-OC-226-STD |
| | 605388 | SFCA240GH1AA2T0-C-OC-216-STD | 606509 | SFCA240GH3AA2T0-C-OC-226-STD |
| | X-60m | 605273 | SFSA008GU2AA1T0-I-GS-216-STD | 606599 |
| 605377 | | SFSA008GU2AA1T0-C-GS-216-STD | 606600 | SFSA008GU4AA1T0-C-GS-226-STD |
| 605274 | | SFSA016GU2AA2T0-I-GS-216-STD | 606601 | SFSA016GU4AA2T0-I-GS-226-STD |
| 605378 | | SFSA016GU2AA2T0-C-GS-216-STD | 606602 | SFSA016GU4AA2T0-C-GS-226-STD |
| 605219 | | SFSA030GU2AA1T0-I-LB-216-STD | 606603 | SFSA030GU4AA1T0-I-LB-226-STD |
| 605889 | | SFSA030GU3AA1T0-I-LB-216-STD | | |
| 605372 | | SFSA030GU2AA1T0-C-LB-216-STD | 606604 | SFSA030GU4AA1T0-C-LB-226-STD |
| 605831 | | SFSA032GU4AA1T0-I-LB-216-EXT | 606605 | SFSA032GU4AA1T0-I-LB-226-EXT |
| 605830 | | SFSA032GU4AA1T0-C-LB-216-EXT | 606606 | SFSA032GU4AA1T0-C-LB-226-EXT |
| 605220 | | SFSA060GU2AA2T0-I-LB-216-STD | 606607 | SFSA060GU4AA2T0-I-LB-226-STD |
| 605373 | | SFSA060GU2AA2T0-C-LB-216-STD | 606608 | SFSA060GU4AA2T0-C-LB-226-STD |
| 605833 | | SFSA064GU2AA2T0-I-LB-216-EXT | 606609 | SFSA064GU4AA2T0-I-LB-226-EXT |
| 606158 | | SFSA064GU4AA2T0-I-LB-216-EXT | | |
| 605832 | | SFSA064GU4AA2T0-C-LB-216-EXT | 606610 | SFSA064GU4AA2T0-C-LB-226-EXT |
| 605221 | | SFSA120GU2AA4T0-I-LB-216-STD | 606611 | SFSA120GU4AA4T0-I-LB-226-STD |
| 605949 | | SFSA120GU4AA4T0-I-LB-216-STD | | |
| 605374 | | SFSA120GU2AA4T0-C-LB-216-STD | 606612 | SFSA120GU4AA4T0-C-LB-226-STD |
| 605835 | | SFSA128GU2AA4T0-I-LB-216-EXT | 606613 | SFSA128GU4AA4T0-I-LB-226-EXT |
| 605953 | | SFSA128GU4AA4T0-I-LB-216-EXT | | |
| 605834 | | SFSA128GU4AA4T0-C-LB-216-EXT | 606614 | SFSA128GU4AA4T0-C-LB-226-EXT |

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| X-60m | 605222 | SFSA240GU2AA4TO-I-HC-216-STD | 606615 | SFSA240GU4AA4TO-I-HC-226-STD |
| | 605375 | SFSA240GU2AA4TO-C-HC-216-STD | 606616 | SFSA240GU4AA4TO-C-HC-226-STD |
| | 605837 | SFSA256GU4AA4TO-I-HC-216-EXT | 606617 | SFSA256GU4AA4TO-I-HC-226-EXT |
| | 605836 | SFSA256GU4AA4TO-C-HC-216-EXT | 606618 | SFSA256GU4AA4TO-C-HC-226-EXT |
| | 605223 | SFSA480GU2AA4TO-I-OC-216-STD | 606619 | SFSA480GU4AA4TO-I-OC-226-STD |
| | 605376 | SFSA480GU2AA4TO-C-OC-216-STD | 606620 | SFSA480GU4AA4TO-C-OC-226-STD |
| | 605839 | SFSA512GU4AA4TO-I-OC-216-EXT | 606622 | SFSA512GU4AA4TO-I-OC-226-EXT |
| | 605838 | SFSA512GU4AA4TO-C-OC-216-EXT | 606623 | SFSA512GU4AA4TO-C-OC-226-EXT |
| X-60s | 605279 | SFSA030GV1AA1TO-I-LB-216-STD | 606656 | SFSA030GV3AA1TO-I-LB-226-STD |
| | 605398 | SFSA030GV1AA1TO-C-LB-216-STD | 606657 | SFSA030GV3AA1TO-C-LB-226-STD |
| | 605280 | SFSA060GV1AA2TO-I-LB-216-STD | 606658 | SFSA060GV3AA2TO-I-LB-226-STD |
| | 605399 | SFSA060GV1AA2TO-C-LB-216-STD | 606659 | SFSA060GV3AA2TO-C-LB-226-STD |
| | 606033 | SFSA060GV3AA2TO-C-LB-216-STD | | |
| | 605281 | SFSA120GV1AA4TO-I-LB-216-STD | 606660 | SFSA120GV3AA4TO-I-LB-226-STD |
| | 605400 | SFSA120GV1AA4TO-C-LB-216-STD | 606661 | SFSA120GV3AA4TO-C-LB-226-STD |
| | 605282 | SFSA240GV1AA4TO-I-HC-216-STD | 606662 | SFSA240GV3AA4TO-I-HC-226-STD |
| | 605401 | SFSA240GV1AA4TO-C-HC-216-STD | 606663 | SFSA240GV3AA4TO-C-HC-226-STD |
| | 605283 | SFSA480GV1AA4TO-I-OC-216-STD | 606664 | SFSA480GV3AA4TO-I-OC-226-STD |
| | 605402 | SFSA480GV1AA4TO-C-OC-216-STD | 606665 | SFSA480GV3AA4TO-C-OC-226-STD |
| | X-60m.2 | 605338 | SFSA030GM1AA1TO-I-LB-216-STD | 606624 |
| 605416 | | SFSA030GM1AA1TO-C-LB-216-STD | 606625 | SFSA030GM3AA1TO-C-LB-126-STD |
| 605339 | | SFSA060GM1AA2TO-I-LB-216-STD | 606626 | SFSA060GM3AA2TO-I-LB-226-STD |
| 605417 | | SFSA060GM1AA2TO-C-LB-216-STD | 606627 | SFSA060GM3AA2TO-C-LB-226-STD |
| 605340 | | SFSA120GM1AA2TO-I-HC-216-STD | 606628 | SFSA120GM3AA2TO-I-HC-226-STD |
| 605418 | | SFSA120GM1AA2TO-C-HC-216-STD | 606629 | SFSA120GM3AA2TO-C-HC-226-STD |
| 605341 | | SFSA240GM1AA2TO-I-OC-216-STD | 606630 | SFSA240GM3AA2TO-I-OC-226-STD |
| 605419 | | SFSA240GM1AA2TO-C-OC-216-STD | 606631 | SFSA240GM3AA2TO-C-OC-226-STD |
| 605346 | | SFSA030GM1AA1TO-I-LB-416-STD | 606632 | SFSA030GM3AA1TO-I-LB-326-STD |
| 605424 | | SFSA030GM1AA1TO-C-LB-416-STD | 606633 | SFSA030GM3AA1TO-C-LB-326-STD |
| 605347 | | SFSA060GM1AA2TO-I-LB-416-STD | 606634 | SFSA060GM3AA2TO-I-LB-326-STD |
| 605425 | | SFSA060GM1AA2TO-C-LB-416-STD | 606635 | SFSA060GM3AA2TO-C-LB-326-STD |
| 606085 | | SFSA120GM3AA4TO-I-LB-416-STD | 606636 | SFSA120GM3AA4TO-I-LB-426-STD |
| 605348 | | SFSA120GM1AA4TO-I-LB-416-STD | | |
| 605426 | | SFSA120GM1AA4TO-C-LB-416-STD | 606637 | SFSA120GM3AA4TO-C-LB-426-STD |
| 605349 | | SFSA240GM1AA4TO-I-HC-416-STD | 606638 | SFSA240GM3AA4TO-I-HC-426-STD |

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|---------|--------|------------------------------|--------|------------------------------|
| X-60m.2 | 605427 | SFSA240GM1AA4TO-C-HC-416-STD | 606639 | SFSA240GM3AA4TO-C-HC-426-STD |
| | 605350 | SFSA480GM1AA4TO-I-OC-416-STD | 606640 | SFSA480GM3AA4TO-I-OC-426-STD |
| | 605428 | SFSA480GM1AA4TO-C-OC-416-STD | 606641 | SFSA480GM3AA4TO-C-OC-426-STD |
| | 605329 | SFSA030GM1AA1TO-I-LB-516-STD | 606642 | SFSA030GM3AA1TO-I-LB-526-STD |
| | 605407 | SFSA030GM1AA1TO-C-LB-516-STD | 606644 | SFSA030GM3AA1TO-C-LB-526-STD |
| | 605330 | SFSA060GM1AA2TO-I-LB-516-STD | 606645 | SFSA060GM3AA2TO-I-LB-526-STD |
| | 605408 | SFSA060GM1AA2TO-C-LB-516-STD | 606646 | SFSA060GM3AA2TO-C-LB-526-STD |
| | 605331 | SFSA120GM1AA4TO-I-LB-616-STD | 606647 | SFSA120GM3AA4TO-I-LB-626-STD |
| | 606087 | SFSA120GM3AA4TO-I-LB-616-STD | | |
| | 605409 | SFSA120GM1AA4TO-C-LB-616-STD | 606648 | SFSA120GM3AA4TO-C-LB-626-STD |
| | 605995 | SFSA120GM3AA4TO-C-LB-616-STD | | |
| | 606174 | SFSA128GM3AA4TO-C-LB-616-EXT | 606649 | SFSA128GM3AA4TO-C-LB-626-EXT |
| | 605332 | SFSA240GM1AA4TO-I-HC-616-STD | 606650 | SFSA240GM3AA4TO-I-HC-626-STD |
| | 606086 | SFSA240GM3AA4TO-I-HC-616-STD | | |
| | 605410 | SFSA240GM1AA4TO-C-HC-616-STD | 606651 | SFSA240GM3AA4TO-C-HC-626-STD |
| | 605994 | SFSA240GM3AA4TO-C-HC-616-STD | | |
| | 606363 | SFSA256GM3AA4TO-C-HC-616-EXT | 606652 | SFSA256GM3AA4TO-C-HC-626-EXT |
| | 605333 | SFSA480GM1AA4TO-I-OC-616-STD | 606653 | SFSA480GM3AA4TO-I-OC-626-STD |
| | 605411 | SFSA480GM1AA4TO-C-OC-616-STD | 606654 | SFSA480GM3AA4TO-C-OC-626-STD |
| | 606149 | SFSA512GM3AA4TO-C-OC-616-EXT | 606655 | SFSA512GM3AA4TO-C-OC-626-EXT |