

Bitmain has closed the ability to install third-party firmware starting from March 2024, you need to downgrade the factory firmware to an earlier version in order to install the VNISH firmware , you need to download SD CARD image for your miner model and control board type (Xilinx , amlogic , BB , cvitek) from the bitmain website <https://m.bitmain.com/support/download> and after flashing use VNISH toolkit (<https://vnish.us/wp-content/uploads/2024/01/vnish-toolkit.zip>) for flashing without SD card directly to NAND of the miner

For series 21 you must use the image from series 19 for your type of control board

The archive contains an sd image from S19 XP (amlogic , Xilinx , cvitek)

1. You must use a flash drive or SD card with a capacity of up to 32GB and must format it in FAT32 format. It is not recommended to use an SD card with an OTG adapter for AMLOGIC control boards instead of a flash drive .
2. Unpack the archive for your type of control board S19XP_unlock_fw into the root of the flash drive (SD card).
3. Connect an SD card or OTG adapter with a flash drive to the turned off miner .
4. Turn on the power of the miner and wait for the green LED on the front panel to light up (and remain constantly lit) miner This will mean that the firmware process was completed successfully. This process takes no more than one minute.
5. Turn off the power of the miner and remove the SD card or OTG adapter with a flash drive from the control board.
6. Turn on the power of the miner and wait for it to load, then use Vnish Toolkit (<https://vnish.us/wp-content/uploads/2024/01/vnish-toolkit.zip>) following the manual located in the archive with utility in step 6, you need to choose manually in the field "MINER MODEL " indicate the model of your miner . If the required model is not available, then you must leave DETECT AUTOMATICALLY and the firmware for S19 XP will be installed. In this case, it will be necessary to additionally update the Vnish firmware for your model and type of control board via the Web interface by downloading it from the nand website web version <https://vnish.us/bitmain/>