

Fig. 5.6.

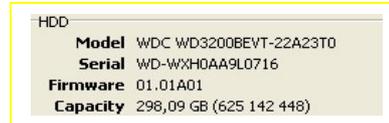


Fig. 5.7.

Installing the SATA board

A compatible PCB from a regular SATA HDD can be installed on a USB WDC Marvell drive to allow access over the SATA interface. To do so you will have to transfer the native firmware from the USB HDD to the SATA board. You will need to read the ROM from the controller board of the USB drive and write it to the donor SATA board. If reading the native ROM via the USB interface fails, installation of a donor board is only possible if the USB board contains an external U12 ROM chip soldered onto it. In that case the donor PCB should be borrowed from the same drive family and it should also have an external ROM chip installed. To adapt the SATA board for the target drive, you have to solder the U12 ROM chip from its original USB board to the SATA donor board.

Warning! 2061-701675 PCB in the Shasta 2D and Shasta 3D drive families may contain two ROM chips. One of them (U12) contains the drive firmware. The other (U14) is used to store the configuration and firmware for the SATA-USB bridge.

Adding the SATA connector

The controller board of USB WDC Marvell drives can be converted into a regular SATA PCB which will allow further work with such a drive using the full functionality of the regular WDC Marvell utility. To do that, you will need a Molex 67490-125 SATA Header Standard connector (see Fig. 7.8).

