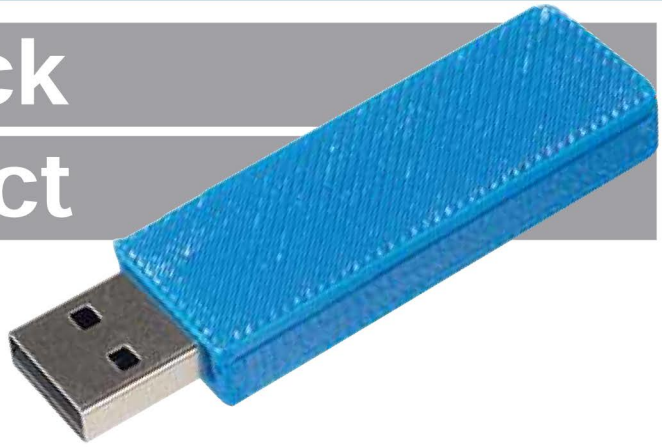
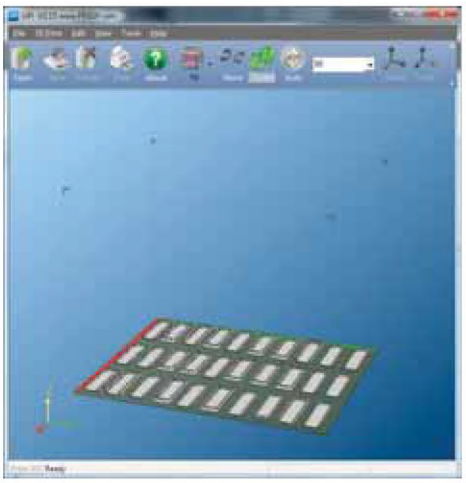
USB Memory Stick 3D Printing Project



- **Low cost**
- **Quick to print**
- **Uses small amounts of filament**
- **Tests students CAD skills**

A USB memory stick case design project is perfect for larger groups or whole classes. The cases themselves are relatively small and so use only a small amount of filament and are relatively quick to print. Our UP BOX printer has capacity to print at least 15 USB cases at a time.

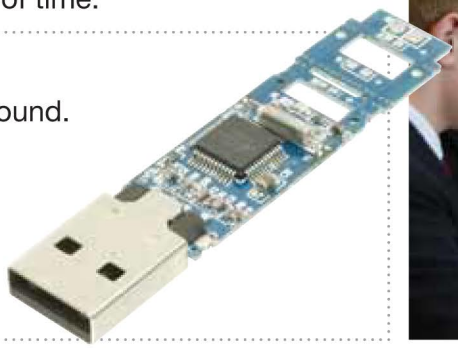


Whilst the project is small and quick to print, students will be required to accurately measure their memory stick and produce a CAD model to tight tolerances. They can also be tasked to build a case that is produced in two halves but is not retained using any screws, tape or adhesives meaning that they need to design a simple but effective clipping mechanism.

- Design a durable case for a USB memory stick
- No adhesive used – design a clip system to assemble
- Project can be extended by adding a cap for the USB connector or creating a sliding mechanism to reveal or hide the connector

At the end of the project, students are left with a functioning, useful product which can be used every day and will allow them to test the durability of their design over long periods of time.

Uncased USB Memory Stick Module
This module is ideal for basing the project around.



- USB connection
- On-board LED indicator

CAD Software
If you don't already have CAD software in your school, Autodesk offer all of their software completely FREE to students and educational establishments. Autodesk 123D Design and Autodesk Inventor are ideal applications for this project. To find out more, visit **www.autodesk.com/education/home**

AUTODESK.