

Reverse Engineering Challenge

Gaming Time



By: Andruw

Team number: 95330F

Location: River Island highschool

Link to [video](#)

Xbox one controller

We chose an xbox controller for this challenge. A xbox controller Are used by kids around the world for them to have fun with their friends online. We wonder how a controller can do what it does best so we pick It for the challenge.



The Xbox One controller has roughly the same layout as the Xbox 360 controller.

- Motherboard
- Main power circuit board
- Batteries
- Buttons

Motherboard

Functions

- Allows communication between the main components systems

Relationship

- Handle all the functions for the joystick
- Handle the LB,RB,LT,RT ect.

Purpose

- Broken up into two seccion for the user the user to decide what to do in a game
- If the user moves or click a button the button will transmit waves to the motherboard, and the motherboard received a command for the user to be able to play



Buttons

The buttons on the controller help the user make many decisions

- A button is the most common that is used to jump in various directions.
- B button his task is to take you back to the main menu.
- X button his task is to reload games.
- Y button is used to switch things from game to game.

- Three line buttons pull up the main menu for all the games, add friends, leave games etc.
- Two square buttons his task is mainly to pull up the card so you can add games to your home screen. Refresh games and allows to see your games and apps.

Batteries

Batteries power the controller to work so people can play. It gets its power from the Main power circuit board. It can last up to 48 hours of play time. After the 48 hours are up you will need to change or charge them. You need to use double A as the batteries or use xbox batteries pack which is rechargeable. You put the batteries in the back off the controller to be able to play.



Main power circuit board

The Main power circuit board is used to power the whole controller. This is why the controller is able to do what it does. It makes the controller run so people can play. It is your main power so it is able to connect to the xbox console so you don't have to do it by hand every time.



Conclusion

I now understand how the xbox controller works and how it does what it does best. This is the technology that has come so far for this project. I'm very happy with what I learned from doing this project.