

CHILD SAFETY DEVICE

❖ Introduction:

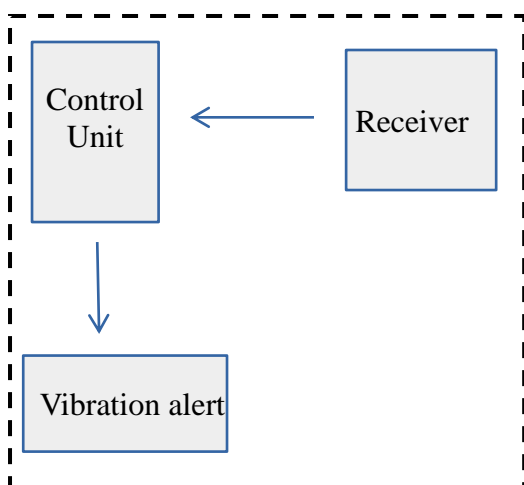
- A Safety device for children in crowded place.
- This safety system contains two modules: Parent module and Child module.
- It provides a connection between parent and child through the Bluetooth technology.
- The connection will be lost if the infant or child separate from the parent.
- Device alerts the Parent module when the connection is lost.
- The connecting range between Parent and Child modules is 10 meters.
- A single Parent module can connect to multiple child modules.

❖ How it works?

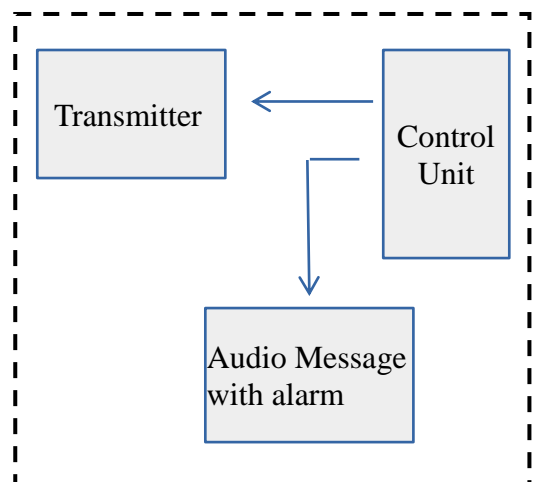
- Device turn on and a red indicator is on.
- When Bluetooth turned on in both devices they pair each other.
- Green indicator on when paired.
- Both devices keep on checking the connection to the other.
- When the connection is lost:
 - Parent gets a vibration alert.
 - Child device produce a sound alarm followed by parent's voice containing contact details.
- Hearing the sound alarm on child device surrounding people can help the child to get it back his parents.

❖ Block Diagram:

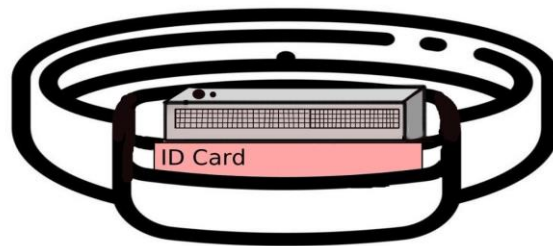
Parent module



Child module



❖ Belt Structure:



Parent Device



Kid Device



❖ Conclusion:

This project of children's security system employs Bluetooth technology, which can help parents to keep track of children's location. When the distance between parent and children is more than 10 meters, parent's device will start vibrating, and children's device will play audio message with alarm. This device can be used easily to the parents to help them find the location of their children.