

Multi-Power supply control by 4 different sources using GSM

About This Project:

Auto Power Supply Control System from 4 Different Sources Using Arduino Microcontroller: The auto power supply control system is very convenient system for that consumers who want to attain uninterrupted power supply from different sources such as solar, main, generator and inverter. If we see it at commercial level, then we can estimate that there are so many consumers or customers which have the equipment or machines whose requirements is only uninterruptable power supply. Such as the data base companies whose all work is done on computer then it is required an uninterruptable power supply all the time, otherwise their computer could be off during the time when the load is shifted on another source, similarly the companies which have the data base production machines then it also could be also off during the load shifted then their production can be stop or damage. Concentrating on these above problems we can examine the importance of this auto power supply control system in this modern world. Different peoples and companies are working on this auto power supply control system which are making this system with the help of magnetic contactors and power relays but their system is so much costly and do not provide precise uninterruptible power supply. Here we are making this auto power supply control system with the help of power electronics components. In this project 4 different sources can be control through SMS by GSM and can be manual control by push switch.

Block Diagram:

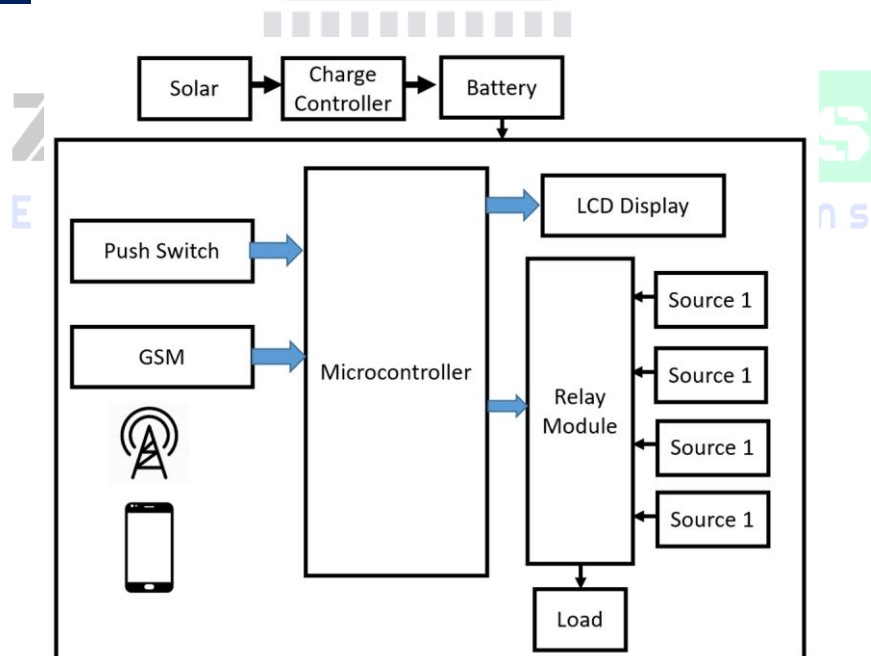


Figure: Block Diagram of Multi-Power supply control by 4 different sources using GSM

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Required Instrument:

- Solar Panel.
- Charge Controller.
- 12V Battery.
- Push Switch.
- GSM module.
- Arduino Nano.
- LCD Display.
- Relay.
- Inverter.
- Transistor.
- Capacitors.
- Resistors.

Advantages:

There are certainly many advantages of our project and some of the major ones have been given below:

- This system could be used in that places where we have different sources of supply such as solar, main and wind.
- This system could be used in industries for supplying the uninterruptable power supply to the industrial machines.
- This system could be used in educational institutes and hospitals for supplying the uninterruptable power supply to the hospital or educational equipment.
- This system is more compact and reliable as compared to the electrical ATS panels.
- This system is less costly as compared to the other power control systems.
- This System control by remote place using GSM.

Applications:

Our project has many application areas and actually we need to use it in many places to verify the exact person which have the proper access. Some of the application areas of the project has been pointed out below:

- It can be used extensively where there is uninterrupted power supply.
- Industry.
- Home.
- Hospital.
- Restaurant.

N.B: Any modification of this project can be done as per your requirement. We will make the project according to your needs. Contact us with your any innovative engineering projects idea. We will help you to implement your project.

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