

## Development of Informative Digital Display System (IDDS)

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### Abstract

The world is evolving faster than ever been before, where communication at every single level became essential, the Informative Digital Display System (IDDS) adds new way of instant communication. It delivers the message efficiently as well as quickly, all that with a very simple click from a device that is handy, and available with almost everyone on this planet.

**IDDS** system is designed to develop an informative display to show important messages and critical warnings to the public/users, which could be used everywhere, for eg in factories, corporations, schools, universities, metro and bus stations, even in the streets, to deliver important yet critical information at blink of an eye. To control the information display, a SIM card will be used so that the system will have a unique number. The information is transmitted using a GSM mobile network through any valid mobile phone on the grid. The microcontroller which works as the main processor will check regularly for any new message available on the SIM card then if the message header contains a pre-programmed password key. If the key is valid by comparing it with a programme loaded inside the microcontroller, then the message will be processed, added to the queue of the displaying messages in the RAM, and hence will be displayed on the monitor among other messages. The system could use the Sun as the main source of power, using solar panels with a battery that will be charged during the day and discharge during the night.