



IEEE Reference:

Cell phone jammer

Shah, S.W. Babar, M.I. Arbab, M.N. Yahya, K.M. Ahmad, G. Adnan, T. Masood, A.

Dept. of Electr. Eng., NWFP Univ. of Eng. & Technol.;

This paper appears in: **Multitopic Conference, 2008. INMIC 2008. IEEE**

International

Publication Date: 23-24 Dec. 2008

On page(s): 579-580

Location: Karachi,

ISBN: 978-1-4244-2823-6

INSPEC Accession Number: 10471450

Digital Object Identifier: 10.1109/INMIC.2008.4777805

Current Version Published: 2009-02-06



Title of the project : Mobile Phone signal Isolator for GSM and
CDMA networks with prescheduled duration

Domain : Wireless Communication & Embedded Systems

Software : Embedded C, Keil, Proload

Microcontroller : AT89S52

Power Supply : +5V, 500mA Regulated Power Supply

Display : a) LCD
b) LED

LCD : HD44780 16-character, 2-line (16X2)

LED : 5mm

Crystal : 11.0592MHz

RTC : DS1307

Applications : Security, Defense, Institutions, Libraries,
Seminar Halls

Developed By : M/S Wine Yard Technologies

Phone : 040-6464 6363, www.WineYardProjects.com



ABSTRACT

Mobile Phone Signal Isolator for GSM and CDMA Networks with Prescheduled Duration

BACKGROUND OF THE PROJECT

Mobile jammer is used to prevent mobile phones from receiving or transmitting signals with the base stations. Mobile jammers effectively disable mobile phones within the defined regulated zones without causing any interference to other communication means. Mobile jammers can be used in practically any location, but are used in places where a phone call would be particularly disruptive like Temples, Libraries, Hospitals, Cinema halls, schools & colleges etc.

As with other radio jamming, mobile jammers block mobile phone use by sending out radio waves along the same frequencies that mobile phones use. This causes enough interference with the communication between mobile phones and communicating towers to render the phones unusable. Upon activating mobile jammers, all mobile phones will indicate "NO NETWORK". Incoming calls are blocked as if the mobile phone were off. When the mobile jammers are turned off, all mobile phones will automatically re-establish communications and provide full service.

Mobile Jammers were originally developed for law enforcement and the military to interrupt communications by criminals and terrorists to foil the use of certain remotely detonated explosives. The civilian applications were apparent with growing public resentment over usage of mobile phones in public areas on the rise & reckless invasion of privacy. Over time many

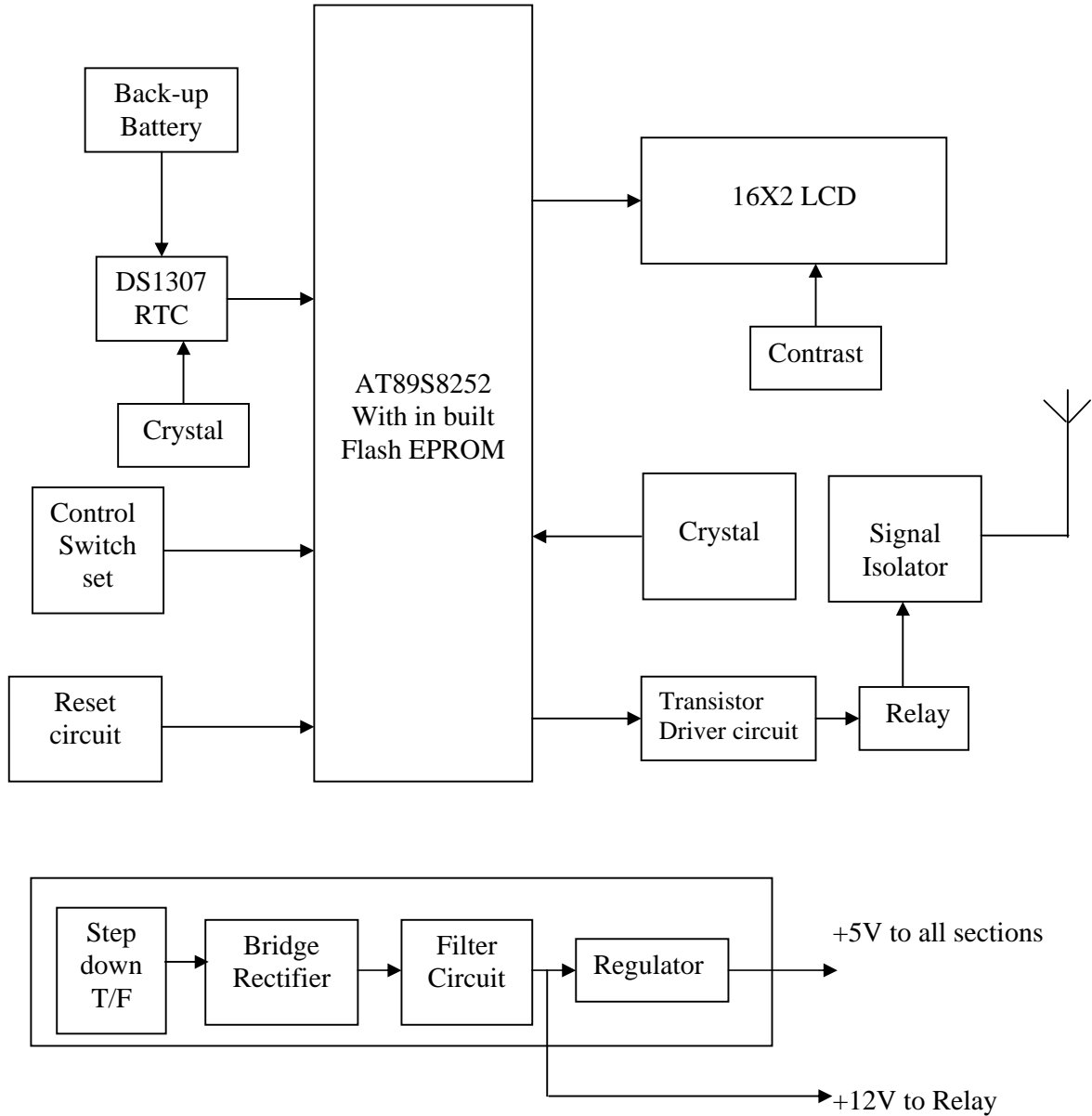


companies originally contracted to design mobile jammers for government switched over to sell these devices to private entities.

In this project, we are controlling this mobile jammer by means of a microcontroller. The activation and deactivation time schedules can be programmed with microcontroller. Real time clock chip DS1307 is used to set the schedule.

This project uses regulated 5V, 500mA power supply. Unregulated 12V DC is used for relay. 7805 three terminal voltage regulator is used for voltage regulation. Bridge type full wave rectifier is used to rectify the ac out put of secondary of 230/12V step down transformer.

.





Advantages:

- Easy to operate
- Sophisticated security
- Simple and Reliable Design
- Isolates both GSM and CDMA mobile signal
- Scheduled time of operation can be programmed
- Works with reference to Real Time Clock

Applications:

- Defense Applications
- Libraries
- Temples
- Colleges
- Seminar halls and conference rooms
- Security for VIPs during their visit to public places