ARDUINO + SIM800L

- RECEIVE/SEND SMS
- PHONE CALLS NOTICE
- CHECK LINE AND SIGNAL LEVEL

THE GSM GATE OPENER

Setting up hw and sw for SIM800L testing

- HW SETUP AS SEEN IN PREVIOUS VIDEO
- SETUP A SIMPLE SKETCH ON ARDUINO TO TEST AT COMMANDS AND RESULTS

SIM800 initial Setup

- **AT**
  Simply return an “OK”
- **ATE0**
  Disable “echo” feature
- **AT+CREG?**
  Return info on network registration
- **AT+CSQ**
  Return line signal level

SIM800 receiving phone calls

- **AT+CLIP=1 (ON SETUP)**
  Enable caller notification on “RING”s
- **+CLIP**
  Caller number notification
- **ATH**
  Hang up incoming call

SIM800 managing SMS

- **AT+CMGF=1 (ON SETUP)**
  Enable messages in TEXT format
- **+CMTI**
  Incoming SMS notification (with memory <index>)
- **AT+CMGR=<INDEX>**
  Return message and sender information
- **AT+CMGD=<INDEX>**
  Delete SMS stored in memory
- **AT+CMGDA="DEL ALL"**
  Delete all SMS in memory
- **AT+CMGS="PHONE NUMBER"**
  Sends an SMS (close SMS with ctrl-z)

SMS and phone calls commands

setup commands

AT

ATE0

AT+CLIP=1

AT+CMGF=1

AT+CMGDA="DEL ALL"

diagnostic comm.

AT+CREG?

AT+CSQ

notifications

+CLIP

+CMTI

Phone call

ATH

SMS

AT+CMGR=<index>

AT+CMGD=<index>

AT+CMGS=''phone number''

(ends with 'char(26)')

SIM800: managing GPRS, clock and phonebook

Next video