

Problem with interfacing LCD with AT89c51

Source: <http://coding.derkeiler.com/Archive/General/comp.arch.embedded/2006-07/msg00437.html>

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 - *Date:* Thu, 13 Jul 2006 04:57:28 -0500
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Hello All,

We are trying to interface 16*2 character LCD with Atmel AT89c51. We are using ACM1602A. the connection to the 8051 is port 1 is used for data i.e. DB0-DB7 of LCD and the RS,R/W,E pins to P2.0,P2.1,P2.2 respectively. and the A and K pins to VCC and Ground respectively. The code for interfacing is as follows.

```
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ORG 0000H;  
LJMP MAIN;  
ORG 0030H;  
MAIN:  
ACALL INITIALISE;//first initialising the LCD  
MAIN1: MOV A,#'M';  
ACALL DISPLAY;  
HERE: SJMP HERE;  
INITIALISE:  
MOV A,#038H;//selecting 2 rows.  
ACALL CONFIGURE;  
MOV A,#0EH;//displaying the cursor.  
ACALL CONFIGURE;  
MOV A,#06H;  
ACALL CONFIGURE;  
RET;  
DISPLAY:  
MOV P1,A;  
SETB P2.0;//Setting RS  
CLR P2.1;//Clearing R/W  
SETB P2.2;//Setting E.  
CLR P2.2;//Clearing E.  
RET;  
  
CONFIGURE:  
CLR P2.0;//Clearing RS.  
CLR P2.1;//Clearing R/W.  
MOV P1,A;  
SETB P2.2;//Setting E.  
CLR P2.2;//Clearing E.  
RET;
```

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END;

Sorry for such a long post.
Awaiting help at the earliest.

Thanks in advance.

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