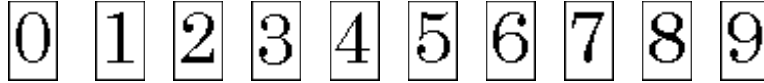


JP SerGLCD 128x64 Module Small Size Image and Test Code
Feb. 26, 2010



```

=====
' File.....JP Serial GLCD 128x64 Module Test.BSP
' Purpose.....This test code use JP SerGLCD Module and BS2P
'               test Smaller Images. (Ram <= 128)
' Auther.....Jianping Sun
' Email.....JP@JianpingUSA.com
' WebSite.....www.JianpingUSA.com
' Started.....Feb 26, 2010
' Updated.....
=====
' {$STAMP BS2p}
' {$PBASIC 2.5}
' Test Smaller Images

SOUT          PIN      0          ' Serial output for GLCD
S_IN          PIN      1          ' Serial input  for GLCD
I2CPin        PIN      8          ' I2C Input/Ouput pin.
EE_Adr        VAR      Word       ' EEPROM 24LC128 Address
idx           VAR      Word       ' For loop
CGRam_Num     VAR      Byte       ' CGRam number
ImageDat      VAR      Byte       ' Pass data
i             VAR      Byte
x             VAR      Byte
y             VAR      Byte
w             VAR      Byte
h             VAR      Byte

#SELECT $STAMP
#CASE BS2, BS2E, BS2PE
    T1200      CON      813
    T2400      CON      396
    T4800      CON      188
    T9600      CON      84
    T19K2      CON      32
    T38K4      CON      6
#CASE BS2SX, BS2P
    T1200      CON      2063
    T2400      CON      1021
    T4800      CON      500
    T9600      CON      240
    T19K2      CON      110
    T38K4      CON      45
#CASE BS2PX
    T1200      CON      3313
    T2400      CON      1646
    T480      CON      813

```

```
T9600      CON      396
T19K2      CON      188
T38K4      CON      84
#ENDSELECT
```

```
Inverted   CON      $4000
Baud       CON      T19K2 '+ Inverted
```

```
'=====
'                                     Main program
'=====
```

Main:

```
PAUSE 2000
SEROUT SOUT, Baud, [250]
PAUSE 100
SEROUT SOUT, Baud, [$61] ' Send Command to show JP Logo
SEROUT SOUT, Baud, [250]
PAUSE 2000
w = 25
h = 40
EE_Adr = 0
GOSUB CleanScreen
PAUSE 100
GOSUB ScreenText
PAUSE 100
GOSUB LoadSmallImage
PAUSE 100
GOSUB CleanScreen
PAUSE 100
x = 0
y = 0
GOSUB ShowSmallImage
GOSUB CleanScreen
PAUSE 15
x = 102
y = 0
GOSUB ShowSmallImage
GOSUB CleanScreen
PAUSE 100
x = 0
y = 23
GOSUB ShowSmallImage
GOSUB CleanScreen
PAUSE 100
x = 102
y = 23
GOSUB ShowSmallImage
GOSUB CleanScreen
PAUSE 100
x = 51
y = 11
GOSUB ShowSmallImage
```

END

```
'===== Load Image Data to CGRam_0
=====
```

```
LoadSmallImage:
FOR i = 0 TO 9
```

```

        CGRam_Num = i
        SEROUT SOUT, Baud, [$32] ' Send Command to Small CGRam for load
picture
        SEROUT SOUT, Baud, [125] ' Image size
        SEROUT SOUT, Baud, [CGRam_Num] ' CGRam number
        SEROUT SOUT, Baud, [250]
        PAUSE 100
        FOR idx = 0 TO 124
            I2CIN I2CPin, $A1, EE_Adr.BYTE1\EE_Adr.BYTE0,[ImageDat]
            SEROUT SOUT, Baud, [ImageDat]
            EE_Adr = EE_Adr + 1
        NEXT
        PAUSE 10
NEXT
RETURN

ShowSmallImage:
FOR i = 0 TO 9
    CGRam_Num = i
    SEROUT SOUT, Baud, [$33] ' Send Command to Small CGRam for load
picture
    SEROUT SOUT, Baud, [x] ' x
    SEROUT SOUT, Baud, [y] ' y
    SEROUT SOUT, Baud, [w] ' w
    SEROUT SOUT, Baud, [h] ' h
    SEROUT SOUT, Baud, [1] ' stely
    SEROUT SOUT, Baud, [CGRam_Num] ' CGRam number
    SEROUT SOUT, Baud, [250]
    PAUSE 1000
NEXT
RETURN
'===== Clean Screen
=====
CleanScreen:
    SEROUT SOUT, Baud, [$23]
    SEROUT SOUT, Baud, [0]
    SEROUT SOUT, Baud, [250]
RETURN
'===== Screen Text
=====
ScreenText:
    SEROUT SOUT, Baud, [$2B]
    SEROUT SOUT, Baud, [1]
    SEROUT SOUT, Baud, ["Loading Images,"]
    SEROUT SOUT, Baud, [250]
    PAUSE 15
    SEROUT SOUT, Baud, [$2B]
    SEROUT SOUT, Baud, [2]
    SEROUT SOUT, Baud, ["please waiting..."]
    SEROUT SOUT, Baud, [250]
    PAUSE 15
    SEROUT SOUT, Baud, [$5B]
    SEROUT SOUT, Baud, [15]
    SEROUT SOUT, Baud, [15]
    SEROUT SOUT, Baud, [1]
    SEROUT SOUT, Baud, [1]
    SEROUT SOUT, Baud, [250]

```

```
PAUSE 15
SEROUT SOUT, Baud, [$5B]
SEROUT SOUT, Baud, [15]
SEROUT SOUT, Baud, [30]
SEROUT SOUT, Baud, [1]
SEROUT SOUT, Baud, [2]
SEROUT SOUT, Baud, [250]
PAUSE 15
```