

?:[coopermaa](#)

? LCD ???: WR-703N ???????? CPU load, system load, ??????, uptime ?????

Arduino ?????

1. LCD ??: http://www.osslab.com.tw/Hardware/Open_Embedded_System/MCU/AVR/Arduino/LCD

2. ???:

```
// ?? LiquidCrystal Library
#include <LiquidCrystal.h>
// ?? LiquidCrystal ??? lcd
//      LCD ??: rs, enable, d4, d5, d6, d7
//      LCD pin  4,  6,  11, 12, 13, 14
//      ??? Arduino ??: 8,  7, 6, 5, 4, 3
LiquidCrystal lcd(8, 7, 6, 5, 4, 3);

void setup() {
  Serial.begin(9600);
  // ?? LCD ????? (2 x 16)
  lcd.begin(16, 2);
  lcd.print("LCD Proc");
}

byte serial_getch(){
  int incoming;
  while (Serial.available()==0){
  }
  // read the incoming byte:
  incoming = Serial.read();
  return (incoming &0xff);
}

void loop(){
  byte rxbyte;
  byte temp;
  rxbyte = serial_getch(); // Fetch byte
  if(rxbyte==0xFE) // If command
  {
    lcd.command(serial_getch()); // Pass through
  }
  else{
    lcd.write(rxbyte); //Otherwise just dump it as text
  }
}
```

OpenWRT ??

?? lcdproc:

opkg update

opkg install lcdproc

?? /etc/LCDD.conf:

1. ?? DriverPath:

DriverPath=/usr/lib/lcdproc/

2. ?? Driver:

Driver=hd44780

3. ?? hd44780 ??:

Hitachi HD44780 driver

[hd44780]

Select what type of connection. See documentation for types.

ConnectionType=lcdserializer

Device of the serial interface [default: /dev/lcd]

Device=/dev/ttyUSB0

Btrate of the serial port (0 for interface default)

Speed=9600

Specifies the size of the LCD.

In case of multiple combined displays, this should be the total size.

Size=16x2

?? lcdproc

/etc/init.d/LCDD start

lcdproc

lcdproc.conf

/etc/lcdproc.conf ??? LCD ???????? CPU, Load, Memory ?