**PoGo Pin LED bar Application Simple Guide for Android Platform**

V1.0

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Picture1. Pogo LED bar

This LED bar is USB to UART interface, you should below the steps to porting the LED bar control function into your App.

1. Open the device & set baud rate:

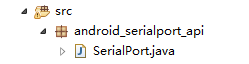
SerialPort ttyUSBRight;

SerialPort ttyUSBLeft;

ttyUSBLeft = new SerialPort(new File("/dev/"+ttyUSB\_left), 9600, 0); //Open the baud

ttyUSBRight = new SerialPort(new File("/dev/"+ttyUSB\_right), 9600, 0,1);

The class of SerialPort. Java must be on package called android\_serialport\_api directory.



2. Send the control command.

Command format:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Start of Package byte | RR RR (Red Color) | GG GG (Green Color) | BB BB (Blue Color) |
| Values | 0x55 0xAA | 0x00 0x00 to 0xFF 0xFF | 0x00 0x00 to 0xFF 0xFF | 0x00 0x00 to 0xFF 0xFF |
| Byte | 2 bytes | 2 bytes | 2 bytes | 2 bytes |

Java Sample code:

UartSend.*UartAllOn*(ttyUSBLeft, *ttyUSB\_left*).run();

UartSend.*UartAllOn*(ttyUSBRight, *ttyUSB\_right*).run();

**public static Thread UartAllOn(final SerialPort sp, final String name) {**

**return new Thread(new Runnable() {**

**@Override**

**public void run() {**

**if (LedActivity.*lock* == null) {**

**System.*out*.println("lock=null");**

**} else {**

**try {**

**synchronized (LedActivity.*lock*) {**

***out* = sp.getFileOutputStream();**

**LampsUtil.*AllOnLamps*();**

***out*.close();**

**}**

**} catch (Exception e) {**

**e.printStackTrace();**

**}**

**}**

**}**

**});**

**}**

public static void AllOnLamps() throws IOException{ //All the lights

UartSend.out.write(intToByteArray(num1)); //START OF INFORMATION

UartSend.out.write(intToByteArray(num2));

UartSend.out.write(intToByteArray(LedActivity.numR));

UartSend.out.write(intToByteArray(LedActivity.numR));

UartSend.out.write(intToByteArray(LedActivity.numG));

UartSend.out.write(intToByteArray(LedActivity.numG));

UartSend.out.write(intToByteArray(LedActivity.numB));

UartSend.out.write(intToByteArray(LedActivity.numB));

}