<http://playground.arduino.cc/Main/VMUSIC>

:: VMUSIC ::

Here's some code that I put together in a Arduino workshop to control a VMUSIC 2 MP3 Module. It's very basic and waits for either of 3 buttons to be pressed that then corrospond with a particular track. I'll upload a diagram soon. But check the datasheet for the right connections.

<http://www.ftdichip.com/Products/Modules/ApplicationModules.htm> <http://www.ftdichip.com/Support/Documents/DataSheets/Modules/DS_VMUSIC2.pdf>

#include <SoftwareSerial.h>

// VMUSIC PIN 6 CTS goes to Arduino GND

// VMUSIC PIN 3 goes to Arduino 5v

// VMUSIC PIN 1 goes to Arduino GND

#define VMUSIC\_RX 6

#define VMUSIC\_TX 7

#define ledPin 13

int incomingByte = 0; // for incoming serial data

int buttonA = 3; // choose the input pin (for a pushbutton)

int buttonB = 4; // choose the input pin (for a pushbutton)

int buttonC = 5; // choose the input pin (for a pushbutton)

int buttonValA = 0; // variable for reading the pin status

int buttonValB = 0; // variable for reading the pin status

int buttonValC = 0; // variable for reading the pin status

int i = 0;

int buttonValue = 0;

// set up a new serial port

SoftwareSerial mySerial = SoftwareSerial(VMUSIC\_RX, VMUSIC\_TX);

void setup() {

Serial.begin(9600); // opens serial port, sets data rate to 9600 bps

// define pin modes for tx, rx, led pins:

pinMode(VMUSIC\_RX, INPUT);

pinMode(VMUSIC\_TX, OUTPUT);

pinMode(ledPin, OUTPUT); // declare LED as output

pinMode(buttonA, INPUT); // declare pushbutton as input

pinMode(buttonB, INPUT); // declare pushbutton as input

pinMode(buttonC, INPUT); // declare pushbutton as input

digitalWrite(buttonA, HIGH);

digitalWrite(buttonB, HIGH);

digitalWrite(buttonC, HIGH);

// set the data rate for the SoftwareSerial port

mySerial.begin(9600);

}

void selectTrack (int trackNumber) {

switch (trackNumber) {

case 49:

Serial.print("I received: ");

Serial.println(trackNumber, DEC);

mySerial.print("VPF 001.mp3");

mySerial.print(0x0D,BYTE);

//selectTrack(incomingByte);

break;

case 50:

Serial.print("I received: ");

Serial.println(trackNumber, DEC);

mySerial.print("VPF 002.mp3");

mySerial.print(0x0D,BYTE);

break;

case 51:

Serial.print("I received: ");

Serial.println(trackNumber, DEC);

mySerial.print("VPF 003.mp3");

mySerial.print(0x0D,BYTE);

break;

//default:

// if nothing else matches, do the default

// default is optional

}

}

void checkbuttons (){

for (int i=3; i <=5; i++){

digitalRead(i);

buttonValue = digitalRead(i);

if (buttonValue == LOW){

digitalWrite(ledPin, HIGH); // turn LED ON

selectTrack(i+46);

Serial.print("hello");

delay(200);

}

else {

digitalWrite(ledPin, LOW); // turn LED OFF

}

}

}

void loop() {

checkbuttons();

}