Rs232 to ttl MH3232

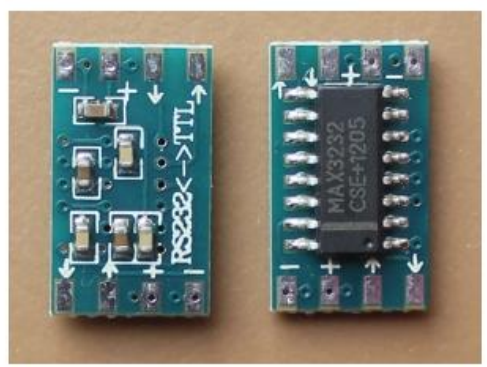
https://daverobertson63.wordpress.com/2013/06/02/serial-port-mini-rs232-to-ttl-converter-adaptor-module-board-max3232-with-arduino/

Serial Port Mini RS232 to TTL Converter Adaptor Module Board MAX3232 with Arduino

So I buy 5 of these little things when I find out I am dealing with RS232 device instead of a TTL device. They arrive quick and I am delighted only to find I dont quite know how to wire them up. The project is to use an Arduino – which I love dearly – to drive an LED rolling display. I am not an electronics expert – so I struggled a little and popped 2 of them good and proper..

Never mind. I'll buy this instead http://www.ebay.co.uk/itm/RS232-Serial-Port-to-TTL-Converter-Module-Board-MAX232-for-PIC-ATMEL-MCU-5V-/260995809488?pt=UK_Computing_Other_Computing_Networking&hash=item3cc49000d0

I am as always standing on the shoulders of giants – http://www.sundh.com/blog/2012/04/arduino-library-for-led-message-display/comment-page-1/#comment-93629



So my experience is:

From the RS232 Port – RX, TX and GND. Thats the -> -<and the – signs. Easy enough

– GND

-> RX

<- TX

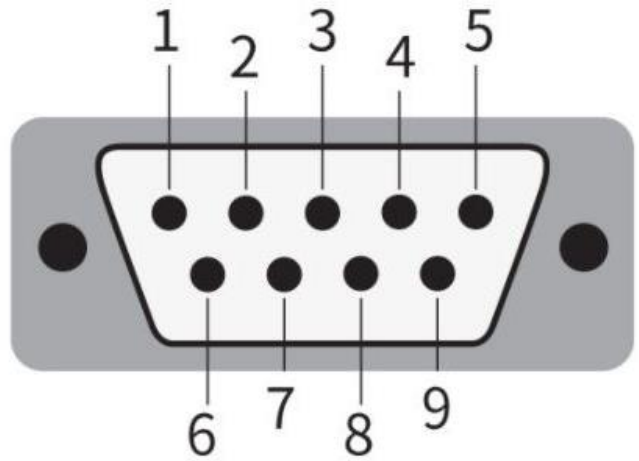
On the TTL (Arduino) side – **DO NOT USE 5V** **use 3.3V** as this toasts the device and heats up and like tops itself. It certainly got very toasty when I put 5V across it. This could be because I messed up somewhere in the wiring but it certainly works well for me. I can also use the SoftwareSerial library as well so I don't need to use TX/RX on the TTL Serial pins 0 and 1

So TTL is

– GND

-> – PIN X

<- PIN Y



DB9: View looking into male connector

DB9M	RS232	
1	DCD	Data Carrier Detect
2	RXD	Receive Data
3	TXD	Transmit Data
4	DTR	Data Terminal Ready
5	GND	Ground
6	DSR	Data Set Ready
7	RTS	Request Send
8	CTS	Clear to Send
9	RI	Ring Indicator

커넥터 연결

엔코더 및 통신 커넥터 연결

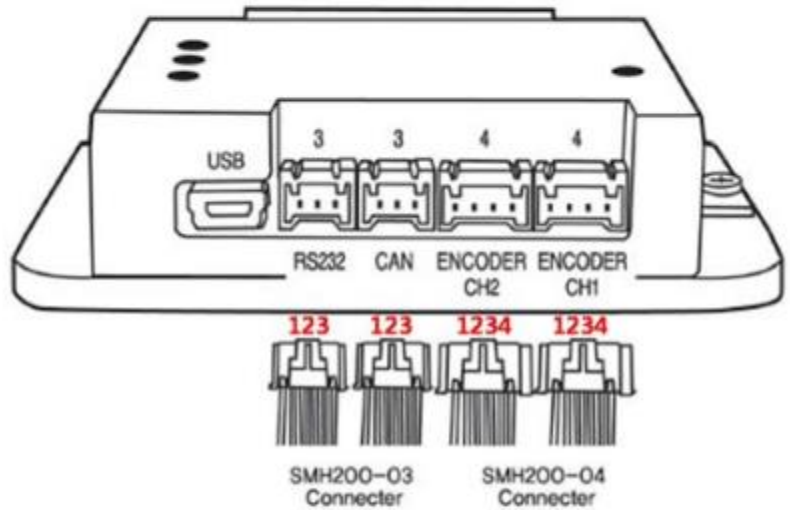
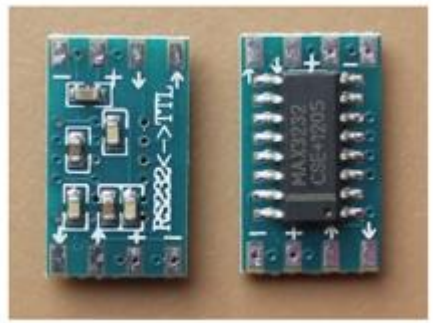
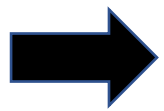
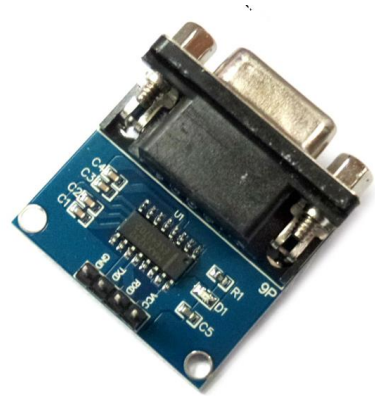


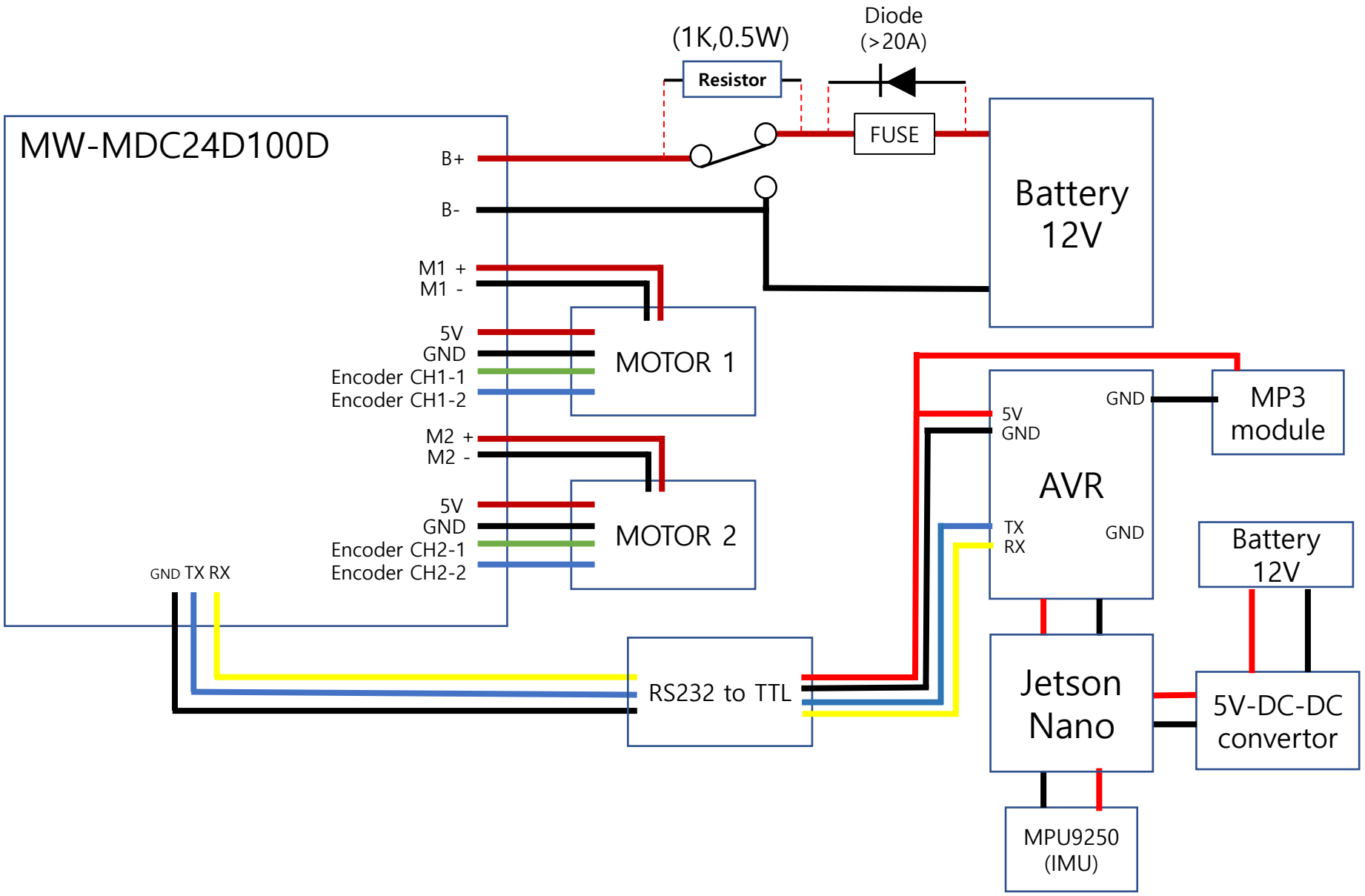
그림 3 엔코더 및 통신 커넥터 연결

	RS232	CAN	Motor 2 Encoder	Motor 1 Encoder
1	RS232 TX	CAN H	Motor 2 VCC	Motor 1 VCC
2	RS232 RX	CAN L	Motor 2 Encoder A	Motor 1 Encoder A
3	RS232 GND	CAN GND	Motor 2 Encoder B	Motor 1 Encoder B
4			Motor 2 GND	Motor 1 GND


TTL<>RS232
MAX3232
CSE-T205




C4
C3
C2
C1
U1
R1
D1
C5
9P


(1K,0.5W)
Diode
(>20A)
Resistor
FUSE
MW-MDC24D100D
B+
B-
M1 +
M1 -
5V
GND
Encoder CH1-1
Encoder CH1-2
MOTOR 1
M2 +
M2 -
5V
GND
Encoder CH2-1
Encoder CH2-2
MOTOR 2
GND TX RX
Battery
12V
5V
GND
AVR
TX
RX
GND
GND
MP3
module
Battery
12V
RS232 to TTL
Jetson
Nano
5V-DC-DC
convertor
MPU9250
(IMU)