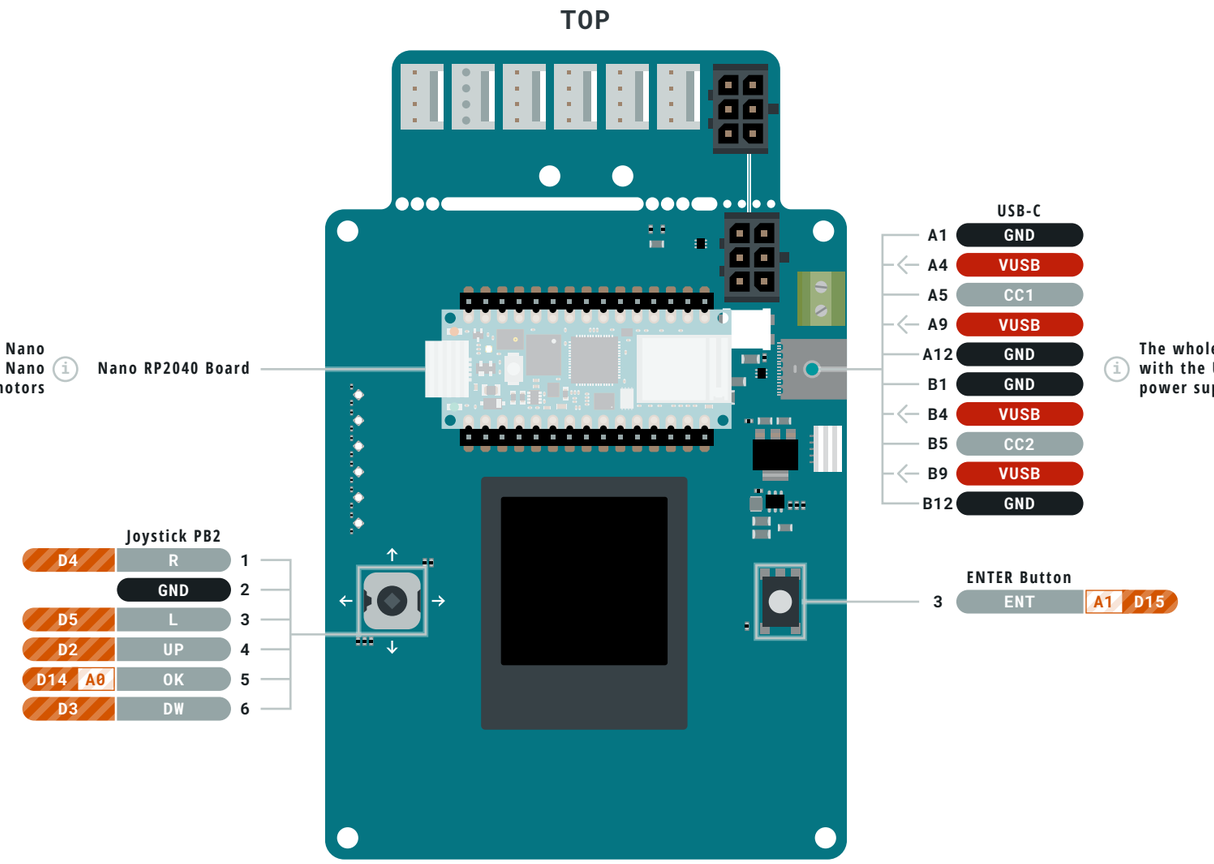
TOP



- Ground
- Power
- LED
- Internal Pin
- SWD Pin
- Digital Pin
- Analog Pin
- Other Pin
- Microcontroller's Port
- Default

WARNING The whole system is powered with the USB-C PPS3.0 compliant power supply included in the kit. The micro USB connector on Nano board will only power the Nano itself and not the motors.

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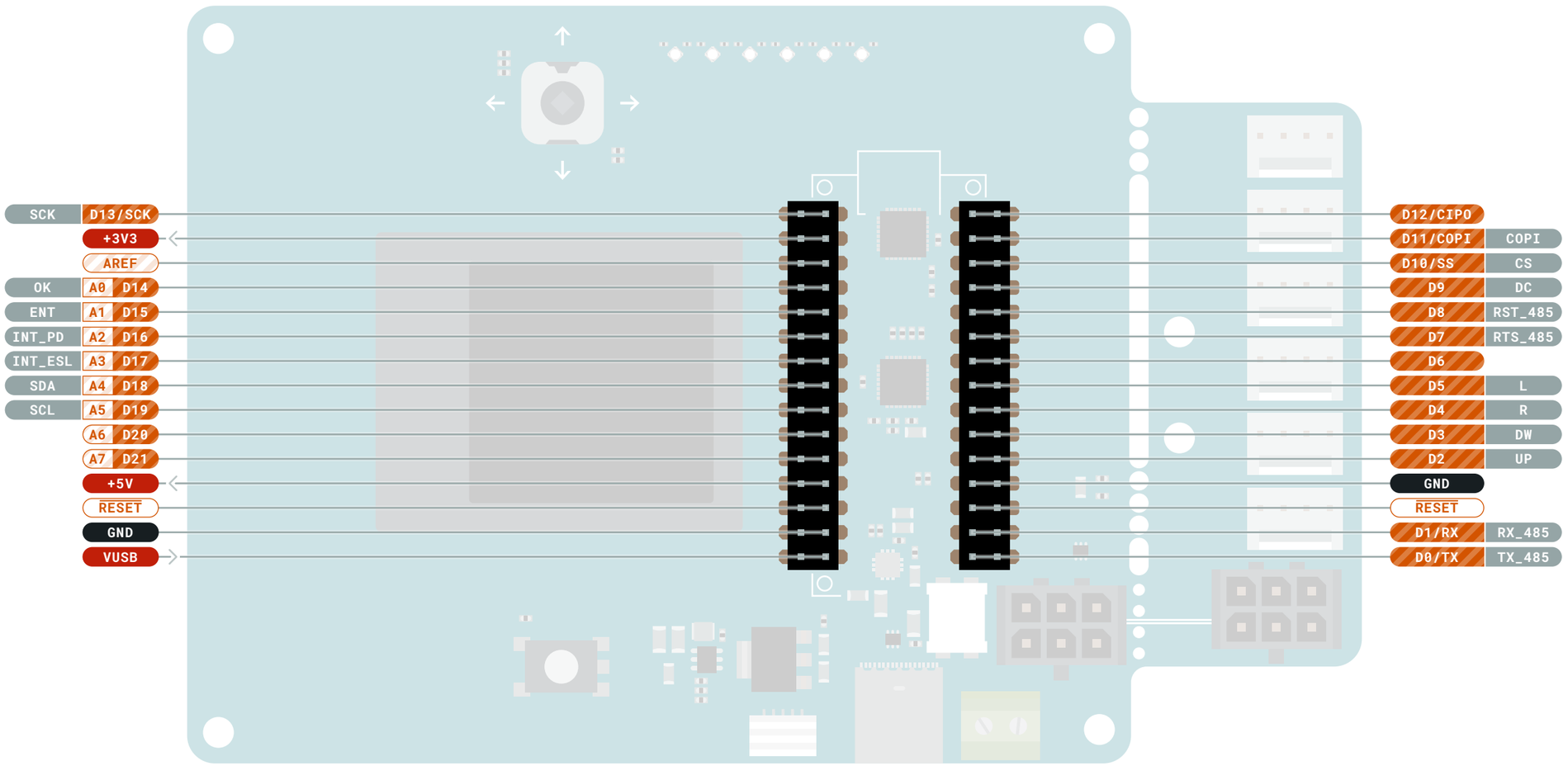
TOP



USB

Ground
Power
LED
Internal Pin
SWD Pin

Digital Pin
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All 6 Motors Connectors have the same connections to the same pins

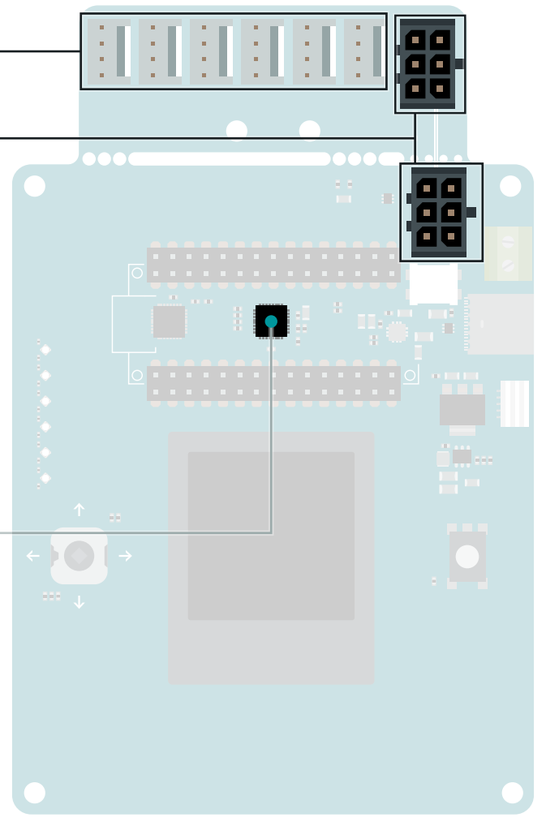
Multiprotocol Transceiver SP335ECR1-L	MOTORS M1-M6 conncectors	
3 T1OUT,B/Z	TX_N	1
4 T2OUT,A/Y	TX_P	2
	VMOT	3
	GNDMOT	4

Multiprotocol Transceiver SP335ECR1-L	J7, J9 44914-0601	
4 T2OUT,A/Y	TX_P	1
	GNDMOT	2
	VMOT	3
3 T1OUT,B/Z	TX_N	4
	GNDMOT	5
	VMOT	6

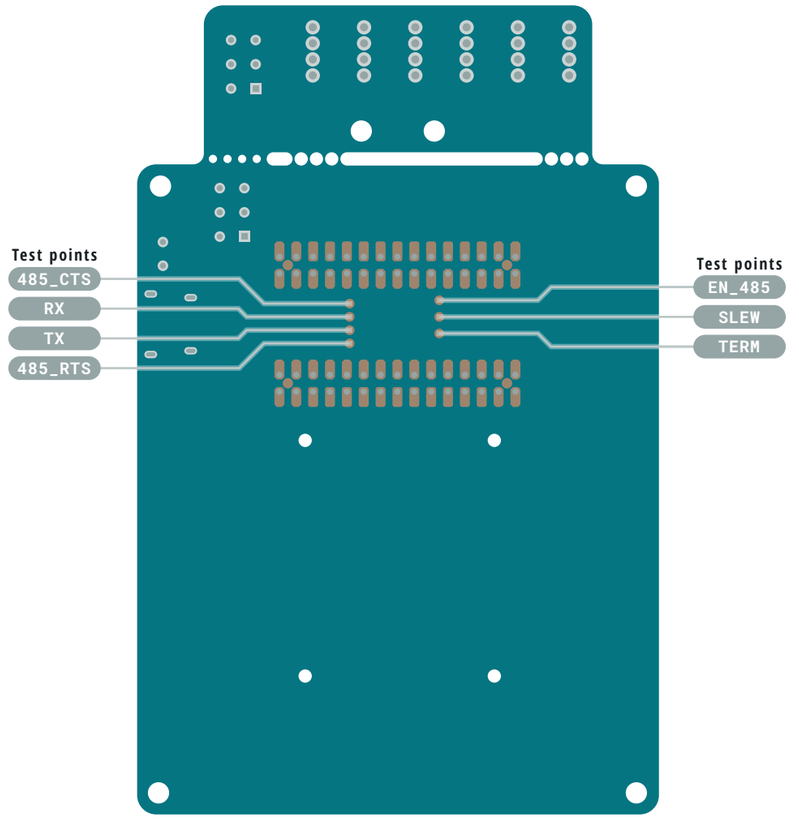
Motors	Multiprotocol Transceiver SP335ECR1-L	
TX_N	T1OUT,B/Z	3
TX_P	T2OUT,A/Y	4
D0/TX	T1IN/D1	22
D7	T2IN/DE	21
D8	$\overline{RE}$	20

IO EXPANDER TCA6424ARGJR		
D1/RX	R2OUT/RO	7
P23	TERM	13
P25	$\overline{SLEW}$	11
P26	$\overline{SHDN}$	10

TOP



BOTTOM



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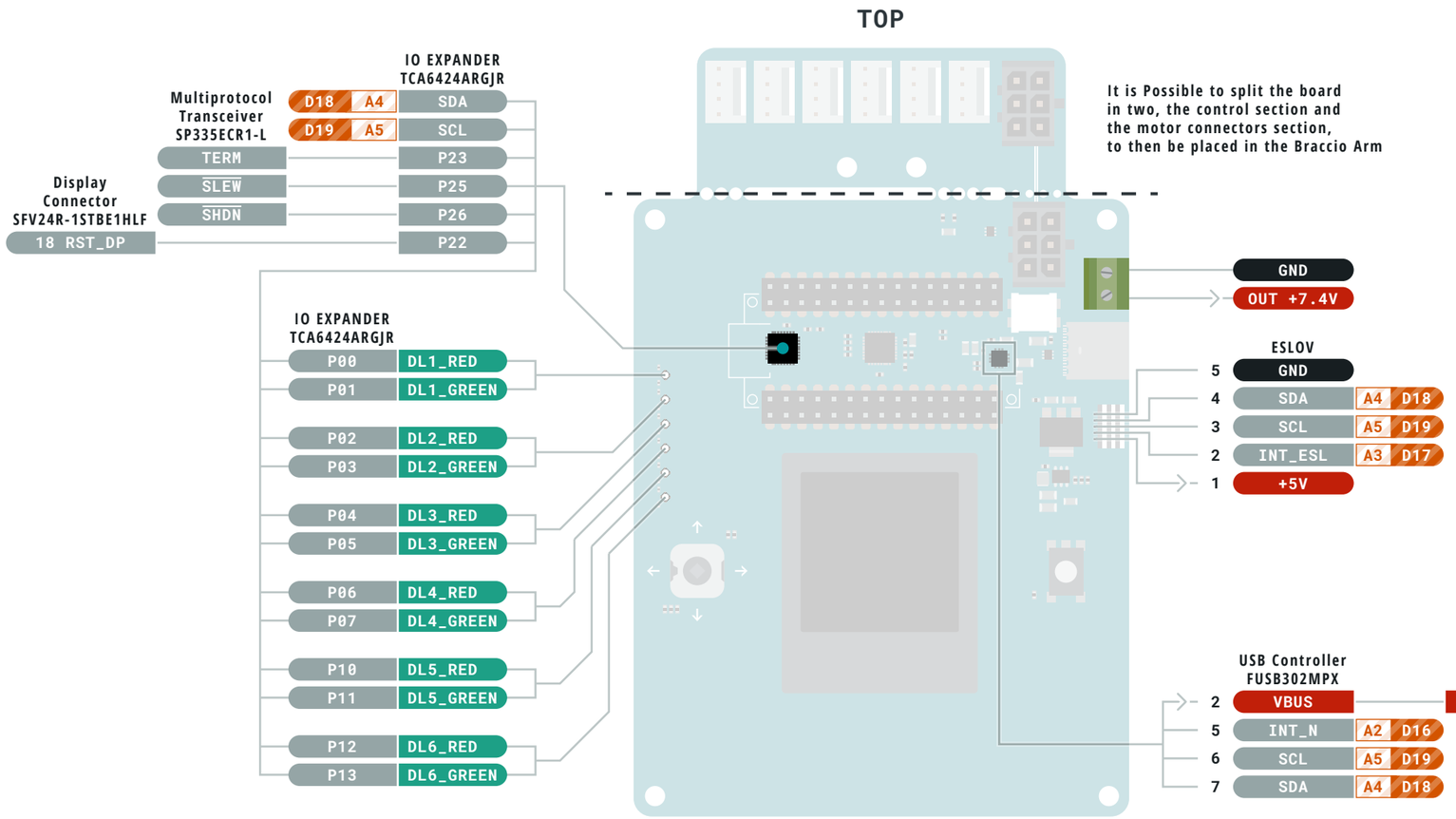

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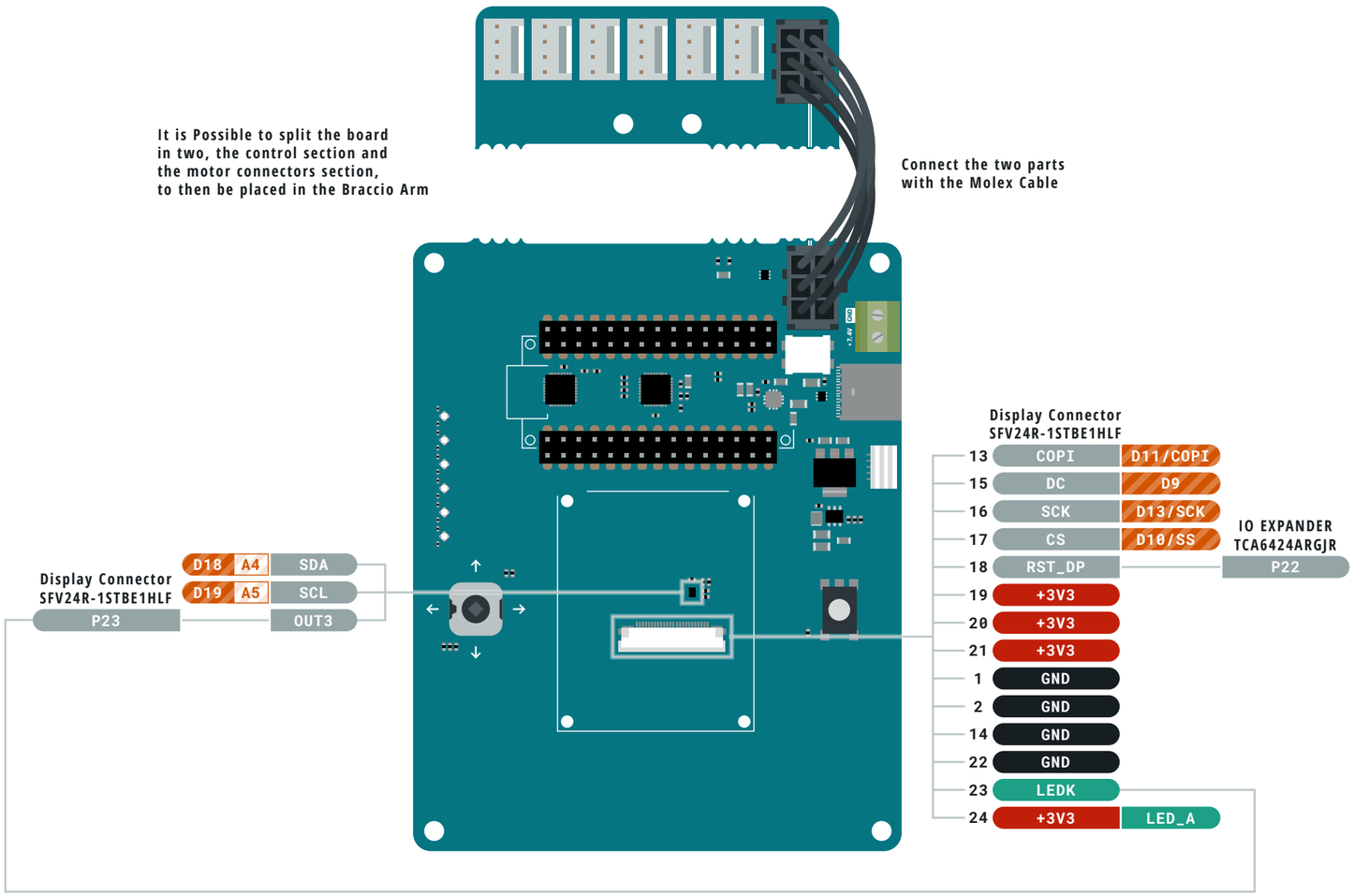
TOP

It is Possible to split the board in two, the control section and the motor connectors section, to then be placed in the Braccio Arm

Connect the two parts with the Molex Cable



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