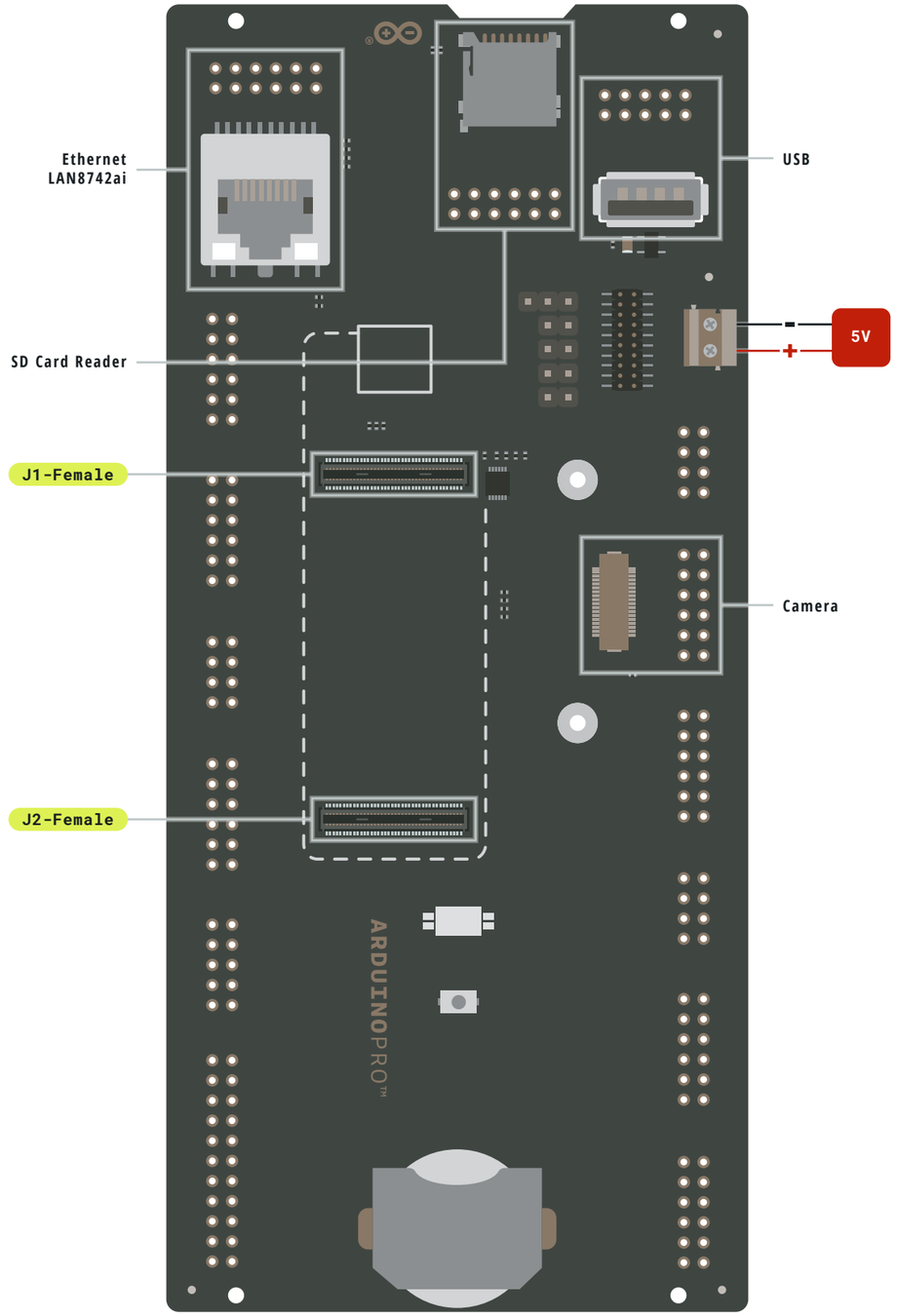
ARDUINO
PORTENTA BREAKOUT

STORE.ARDUINO.CC/PORTENTA-BREAKOUT



- Ground
- Power
- LED
- Internal Pin
- SWD Pin
- Microcontroller's Port
- Other Pin
- High Density Connector

POWER LIMITS
Depends on the Board used

NOTE: CIPO/COPI have previously been referred to as MISO/MOSI

ARDUINO.CC

Last update: 14 Sep 2021

ARDUINO PORTENTA BREAKOUT

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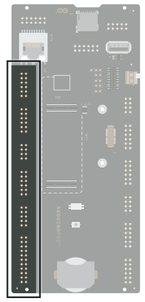

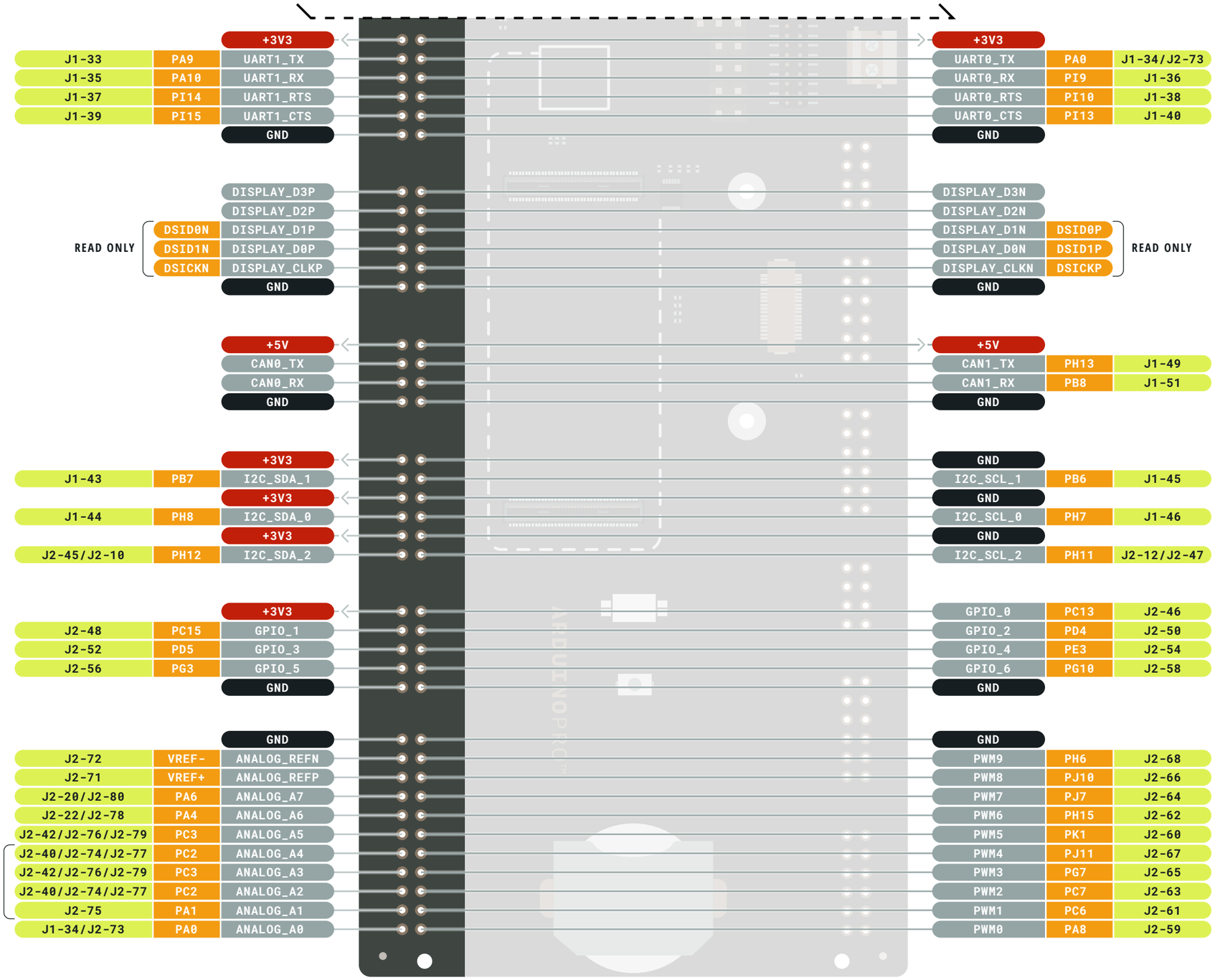

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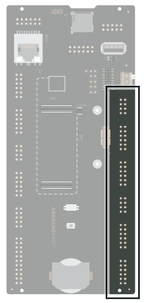
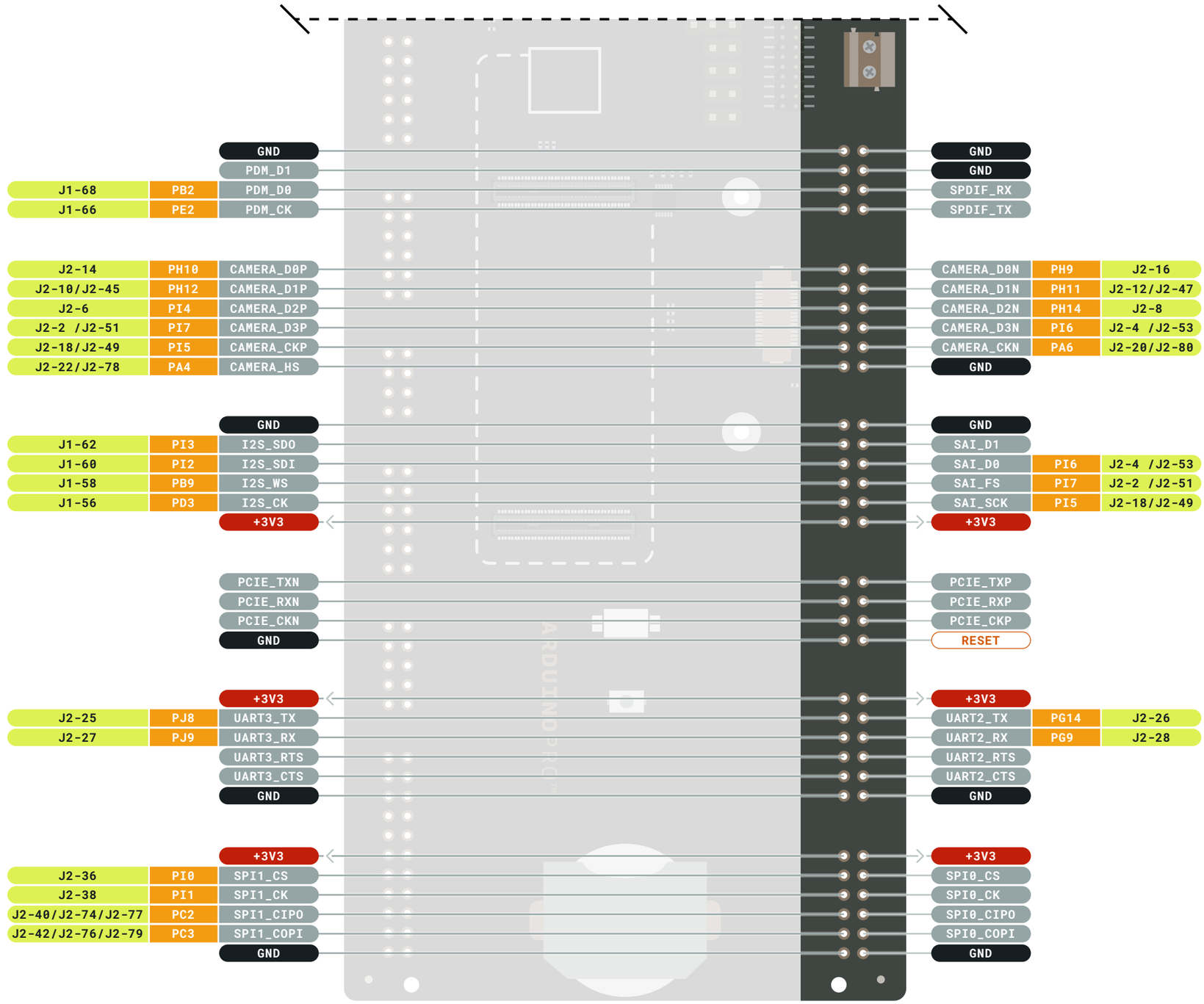
SD Card





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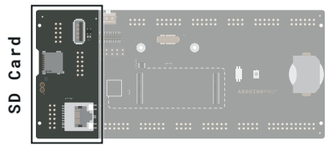

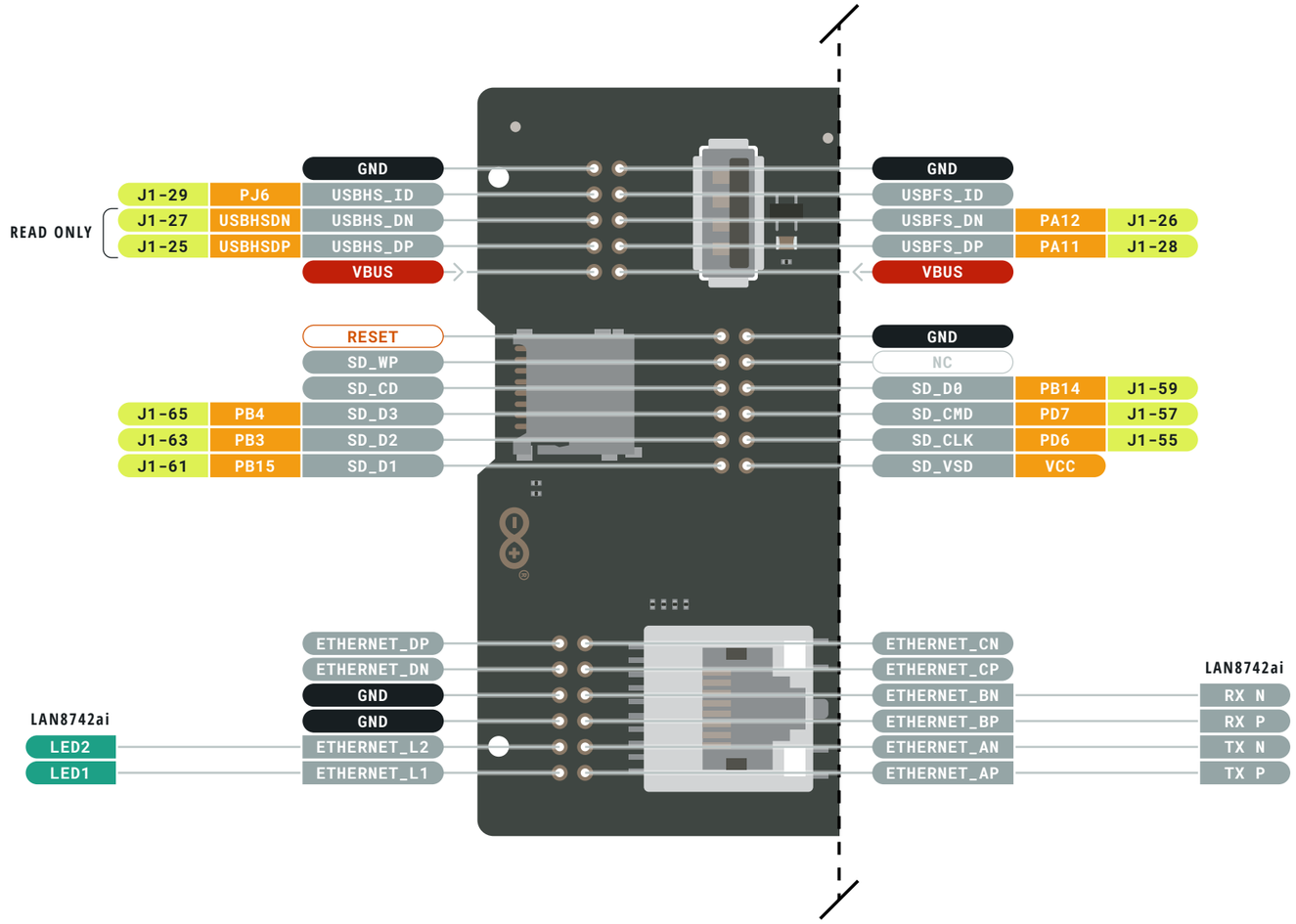

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ARDUINO
PORTENTA BREAKOUT

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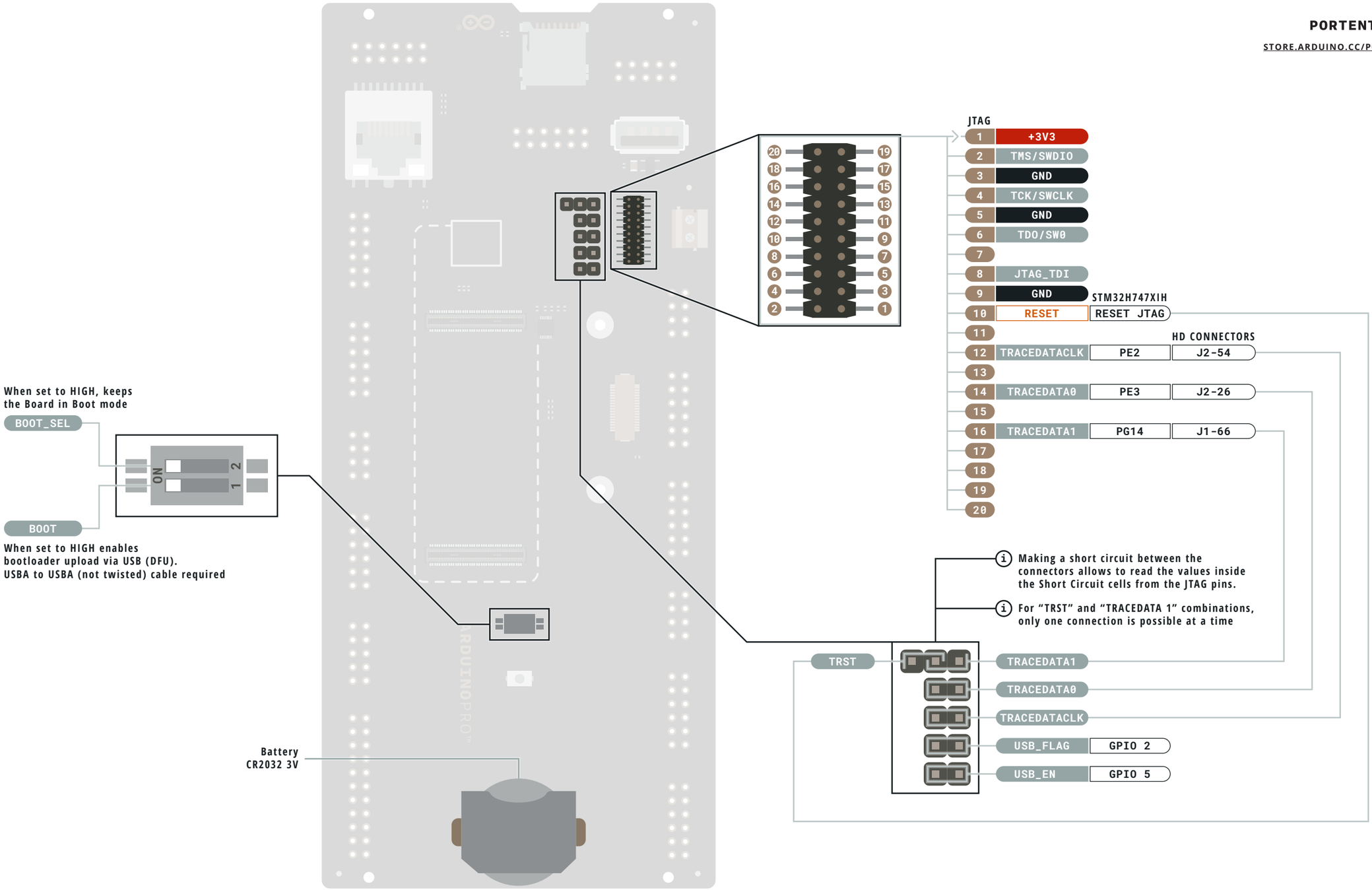

Ground
Power
LED
Internal Pin
SWD Pin

Microcontroller's Port
Other Pin
High Density Connector

Short Circuit
Making a short circuit between the connectors allows to read the values inside the Short Circuit cells.

POWER LIMITS
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PORTENTA BREAKOUT

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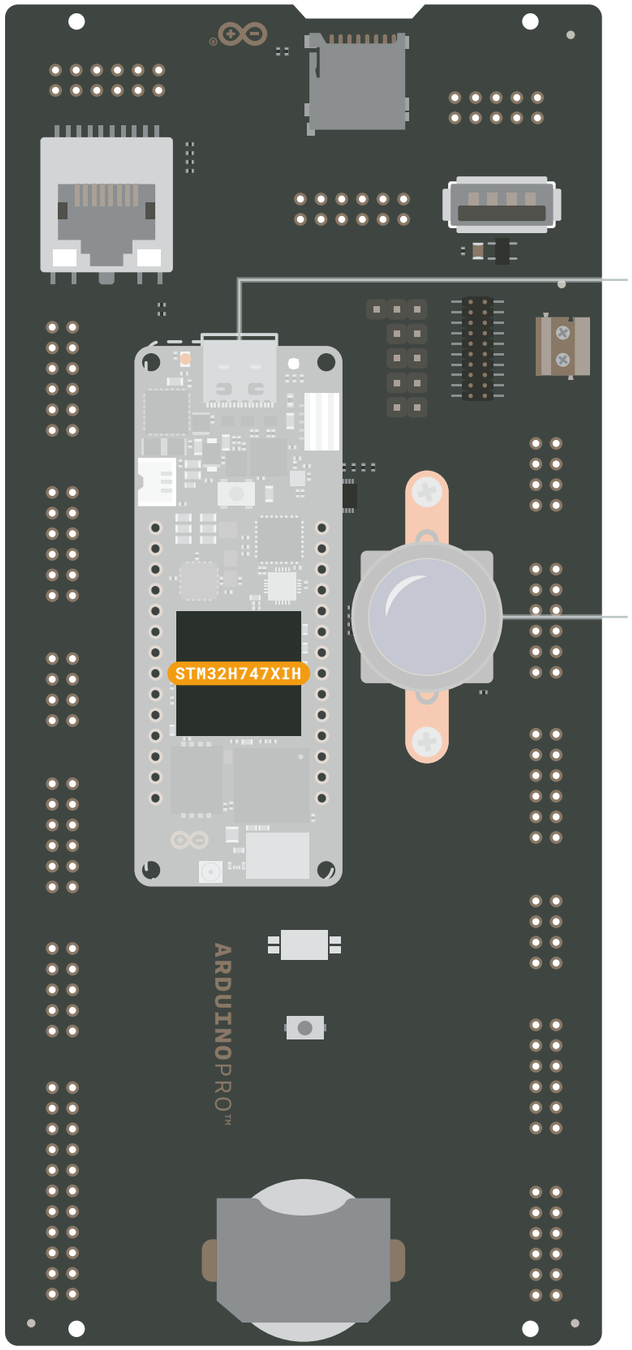

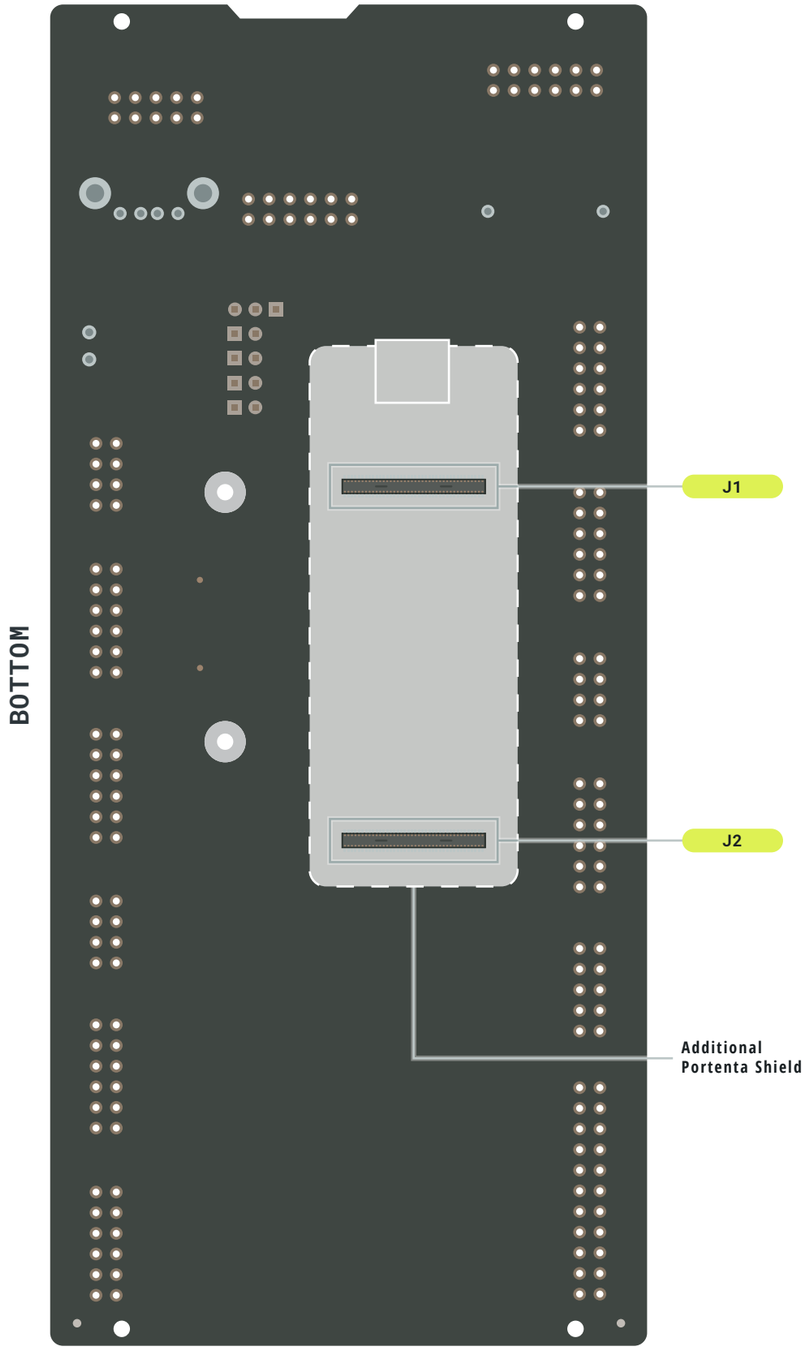

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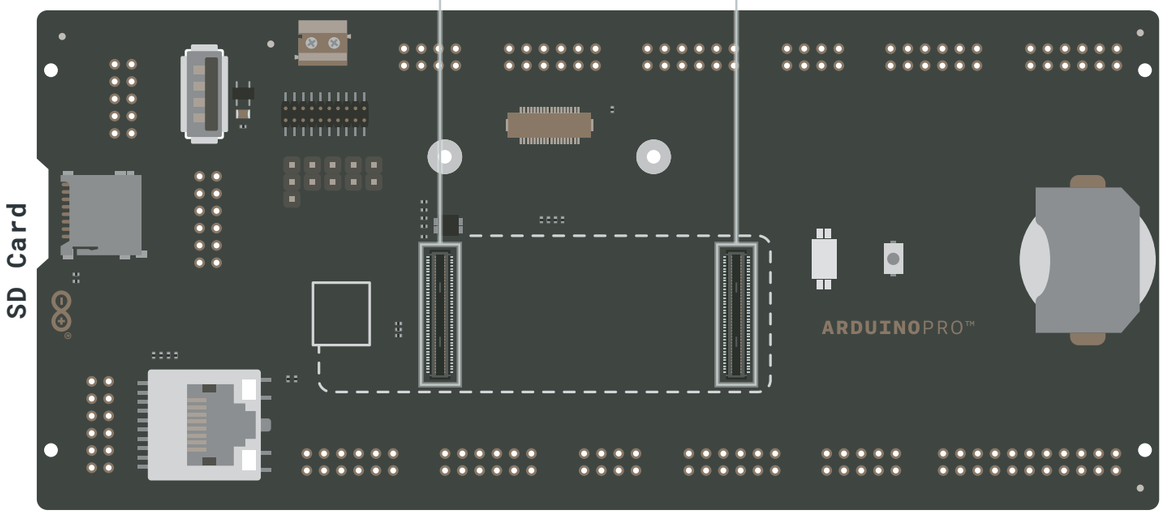
ARDUINO PORTENTA BREAKOUT

STORE.ARDUINO.CC/PORTENTA-BREAKOUT

J1-Female

SWO	79	80	
SWCK	77	78	
SWDIO	75	76	
RESET	73	74	
	71	72	V-SDCARD
	69	70	
	67	68	DMIC D0
SDC D3	65	66	DMIC CK
SDC D2	63	64	VSYS
SDC D1	61	62	I2S DO
SDC D0	59	60	I2S DI
SDC CMD	57	58	I2S WS
SDC CLK	55	56	I2S MCK
VSYS	53	54	GND
CAN1 RX	51	52	
CAN1 TX	49	50	
GND	47	48	VIN
I2C1 SD6	45	46	I2C0 SCL
I2C1 SDA	43	44	I2C0 SDA
VIN	41	42	GND
UART1 CTS	39	40	UART0 CTS
UART1 RTS	37	38	UART0 RTS
UART1 RX	35	36	UART0 RX
UART1 TX	33	34	UART0 TX
GND	31	32	VIN
USB1 ID	29	30	
USB1 D-	27	28	USB0 D-
USB1 D+	25	26	USB0 D+
USB1 VBUS	23	24	
VIN	21	22	GND
ETH L2	19	20	DSI CK-
ETH L1	17	18	DSI CK+
	15	16	DSI D0-
	13	14	DSI D0+
	11	12	DSI D1-
	9	10	DSI D1+
ETH B-	7	8	
ETH B+	5	6	
ETH A-	3	4	
ETH A+	1	2	



J2-Female

CAM D7	2	1	FORCE_BOOTLOADER
CAM D6	4	3	BOOT_SOURCE
CAM D5	6	5	POWER_ON_REQ
CAM D4	8	7	COINCELL
CAM D3	10	9	
CAM D2	12	11	
CAM D1	14	13	
CAM D0	16	15	
CAM VS	18	17	
CAM CLK	20	19	
CAM HS	22	21	
GND	24	23	VCC/+3V3
UART2 TX	26	25	UART3 TX
UART2 RX	28	27	UART3 RX
	30	29	
	32	31	
VCC	34	33	GND
SPI1 CS	36	35	
SPI1 CK	38	37	
SPI1 CIPO	40	39	
SPI1 COPI	42	41	
GND	44	43	VCC/+3V3
GPIO 0	46	45	I2C2 SDA
GPIO 1	48	47	I2C2 SCL
GPIO 2	50	49	SAI CK
GPIO 3	52	51	SAI FS
GPIO 4	54	53	SAI D0
GPIO 5	56	55	
GPIO 6	58	57	GND
PWM 6	60	59	PWM 1
PWM 7	62	61	PWM 2
PWM 8	64	63	PWM 3
PWM 9	66	65	PWM 4
PWM 10	68	67	PWM 5
GND	70	69	VCC/+3V3
ADC VREF-	72	71	ADC VREF+
ADC A4	74	73	ADC A0
ADC A5	76	75	ADC A1
ADC A6	78	77	ADC A2
ADC A7	80	79	ADC A3

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