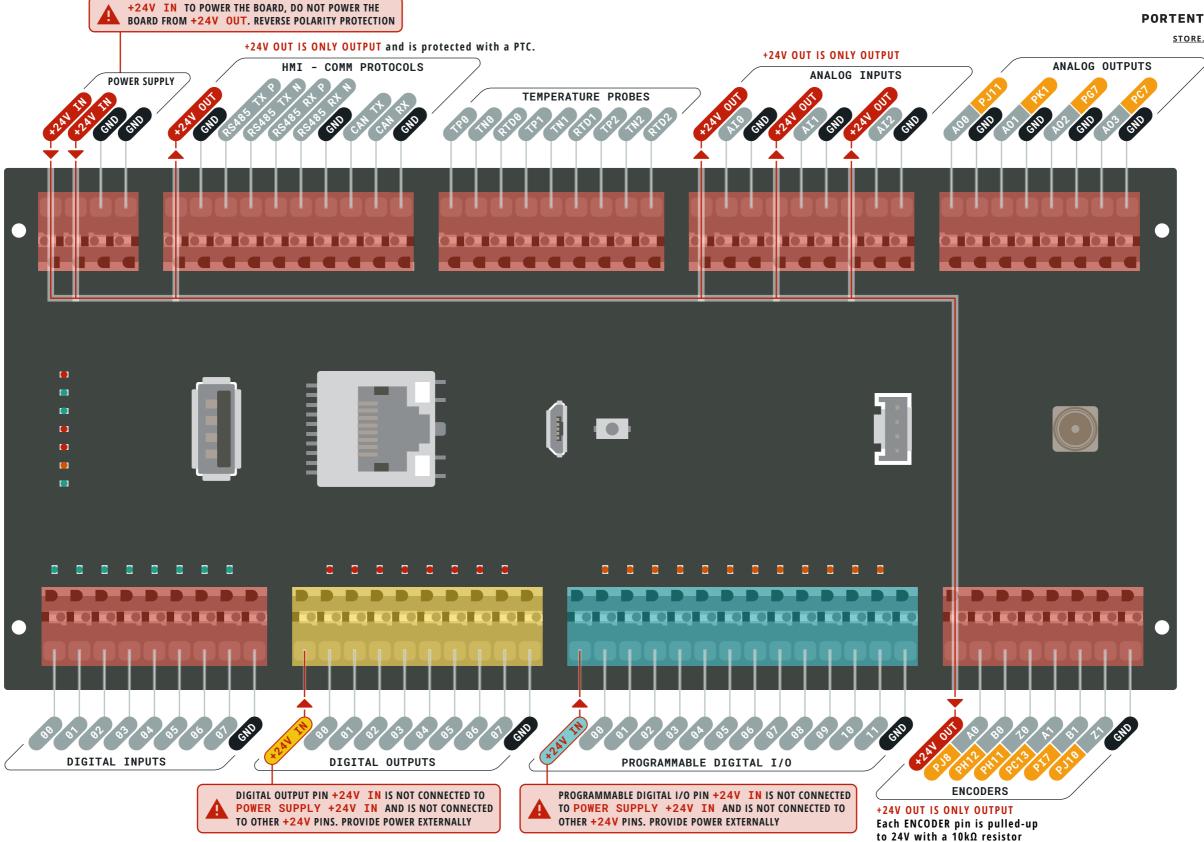
STORE.ARDUINO.CC/MACHINE-CONTROL



GND is common through the board

ARDUINO.CC

Last update: 11/05/2020

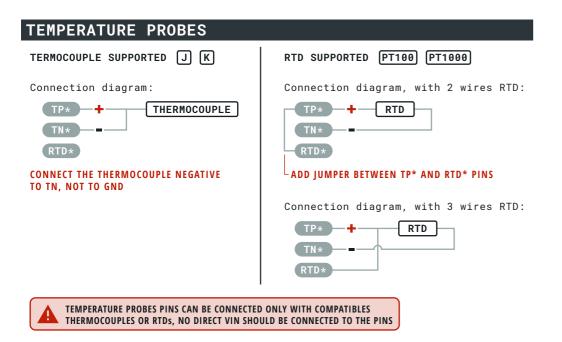


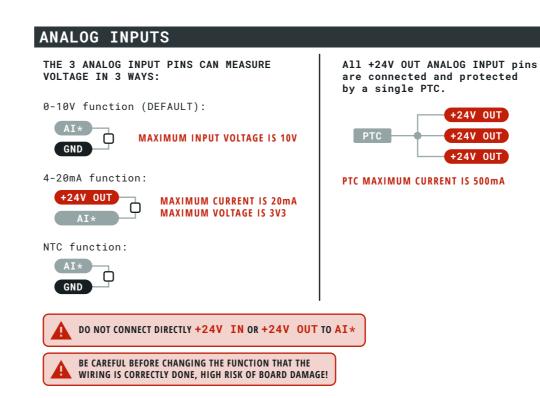
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Ground Microcontroller's Port High Density Connector Power

Internal Pin







ANALOG OUTPUTS

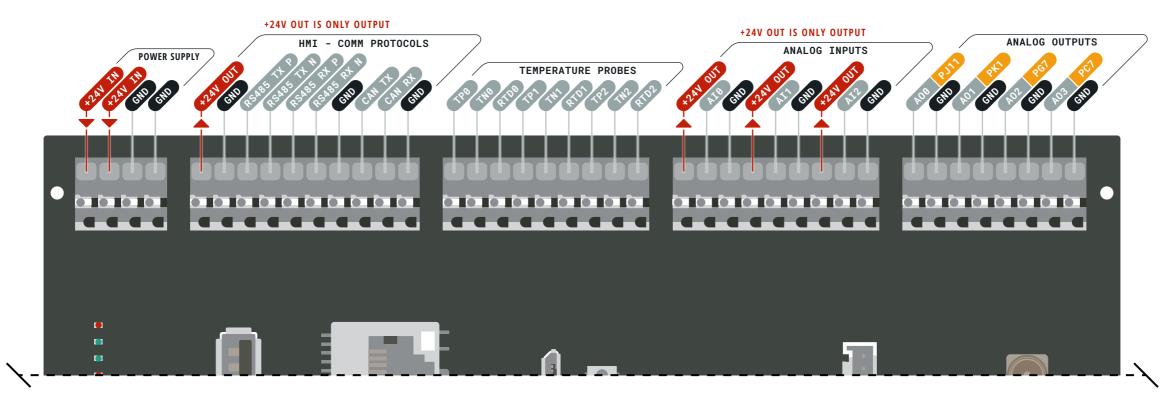
Each pin can be independently set up to 10V and can source up to 20mA.

HMI - COMM PROTOCOLS

+24V OUT is protected with a PTC.

PTC +24V OUT

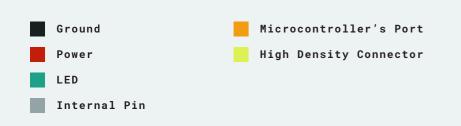
PTC MAXIMUM CURRENT IS 500mA



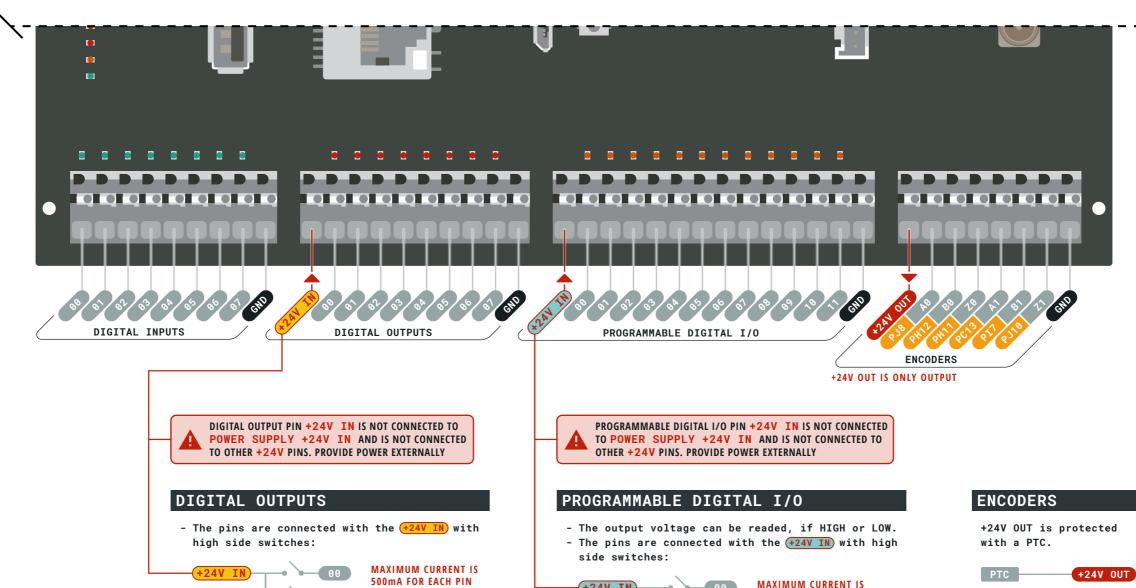
ARDUINO.CC

Last update: 11/05/2020









PTC MAXIMUM CURRENT IS 500mA

500mA FOR EACH PIN

Each pin is pulled-up to 24V with a $10k\Omega$ resistor.

ARDUINO.CC

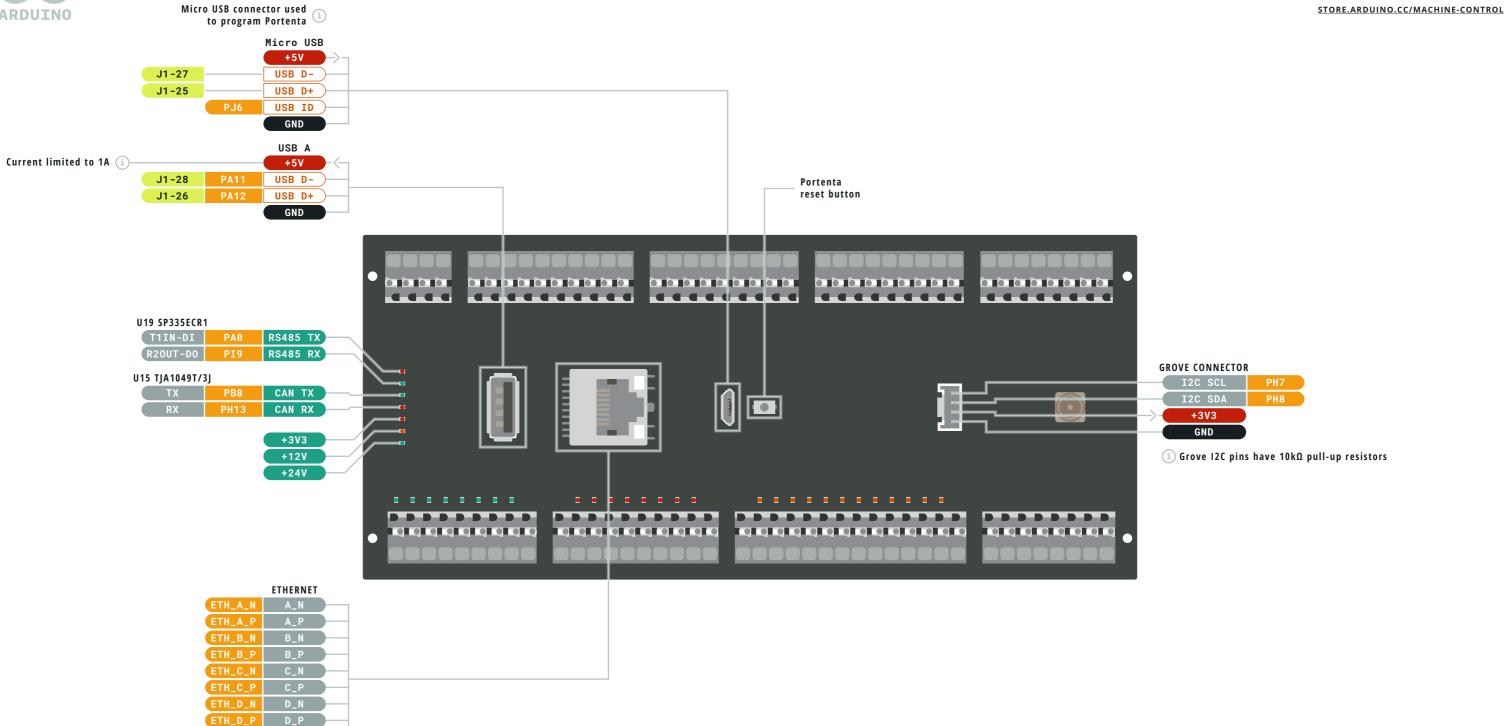
Last update: 11/05/2020



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Ground Microcontroller's Port High Density Connector Power

Internal Pin



GND is common through the board

ARDUINO.CC

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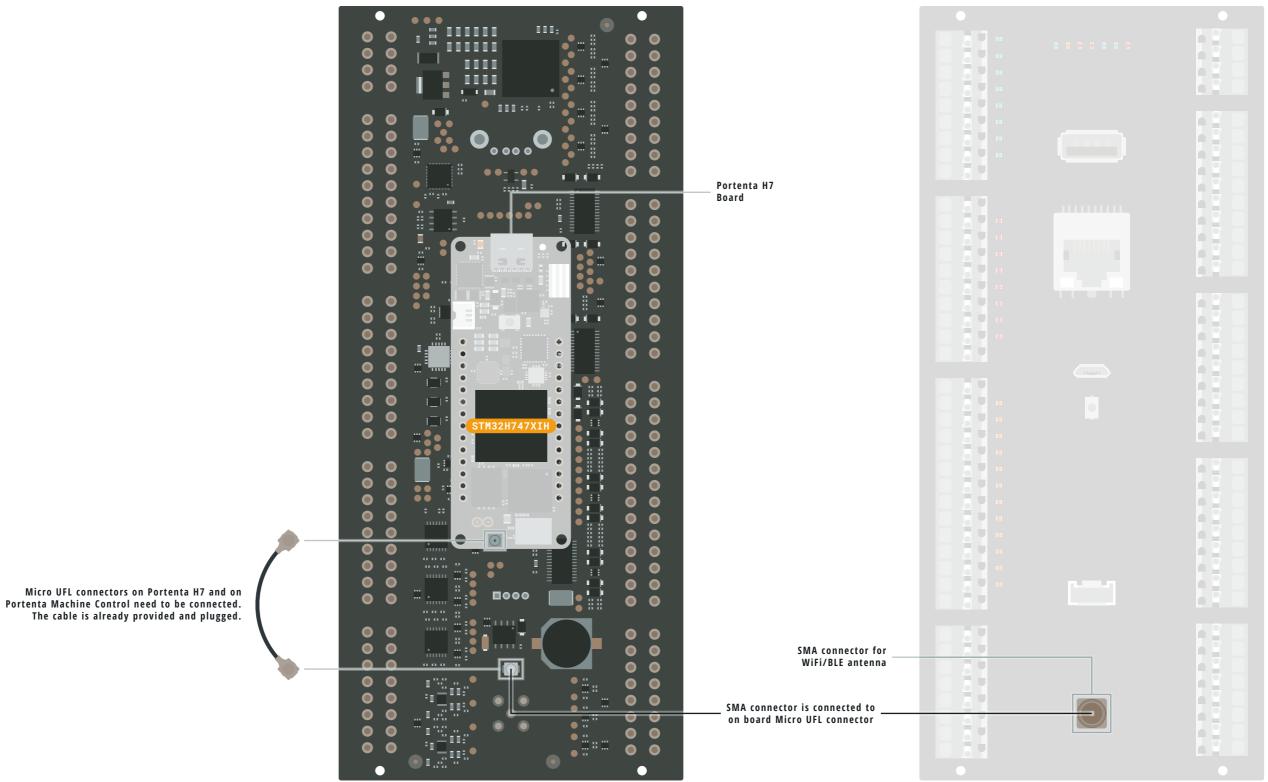
LED1

BOTTOM VIEW

GND is common through the board

ARDUINO PORTENTA MACHINE CONTROL

STORE.ARDUINO.CC/MACHINE-CONTROL



ARDUINO.CC

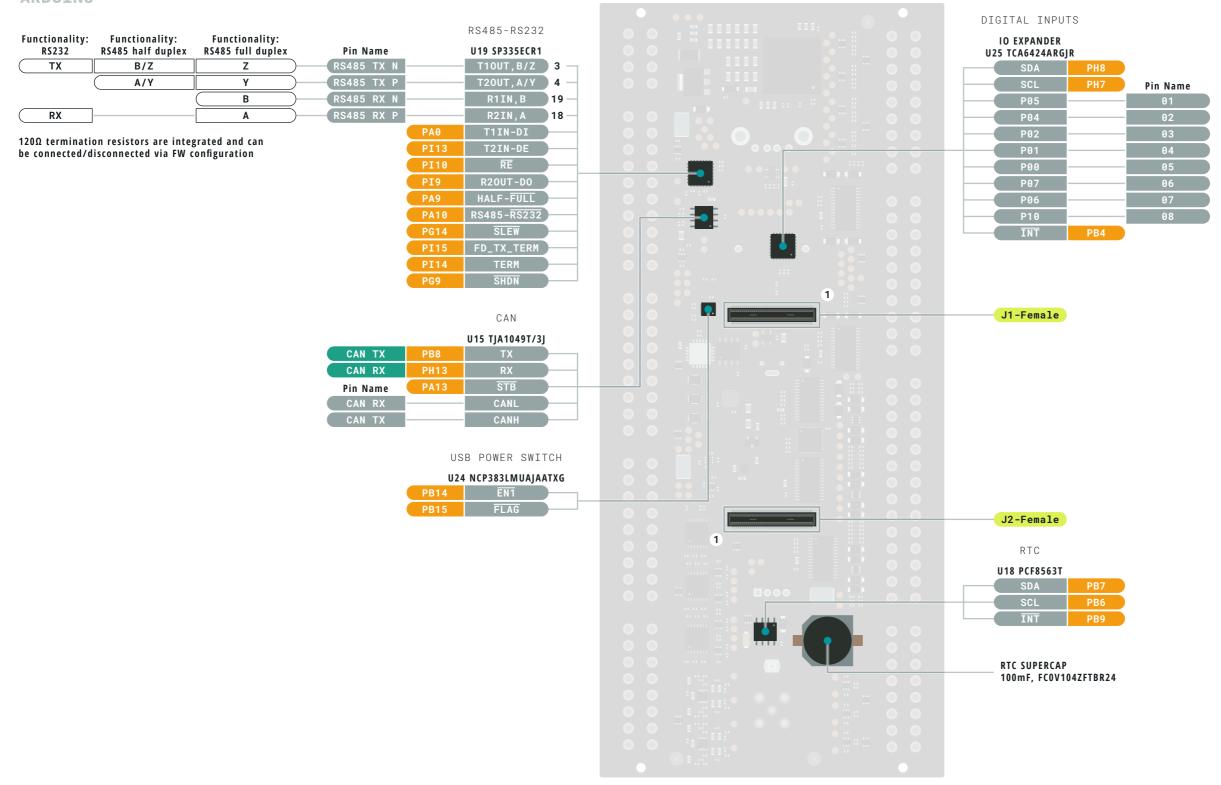
Last update: 11/05/2020





BOTTOM VIEW ARDUINO PORTENTA MACHINE CONTROL

STORE.ARDUINO.CC/MACHINE-CONTROL





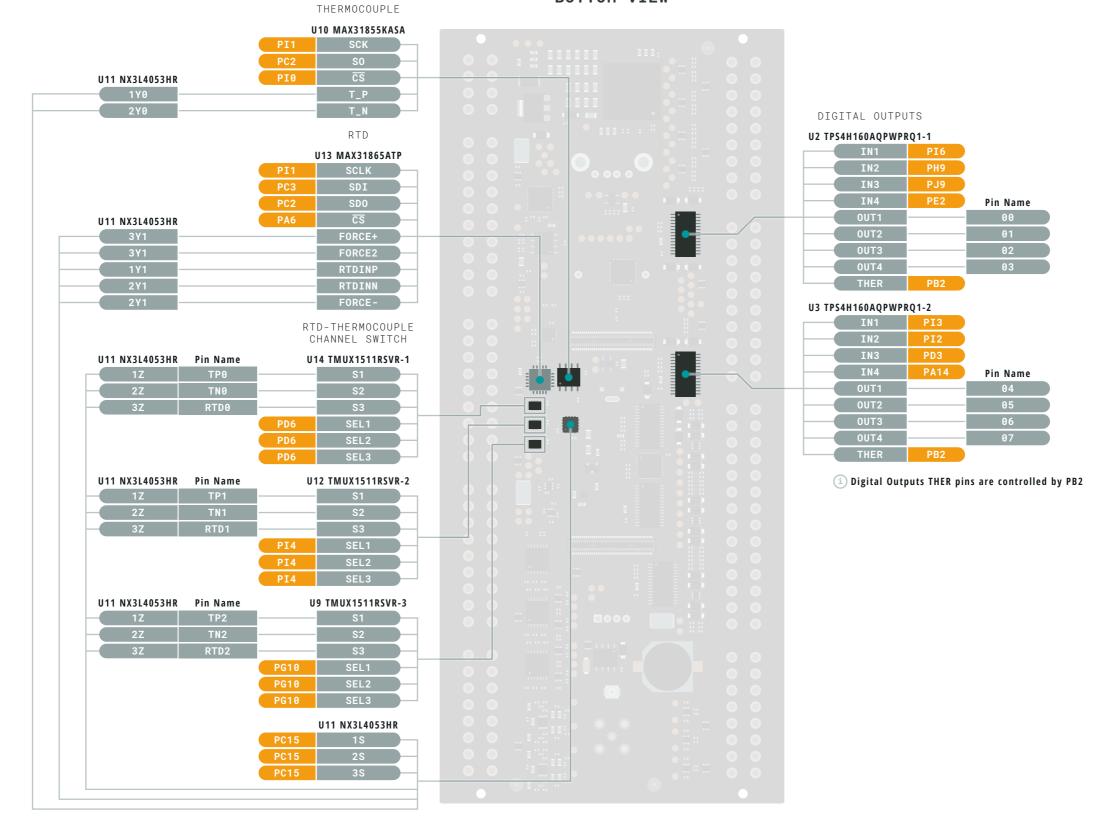
Last update: 11/05/2020



BOTTOM VIEW

ARDUINO PORTENTA MACHINE CONTROL

STORE.ARDUINO.CC/MACHINE-CONTROL



GND is common through the board

ARDUINO.CC

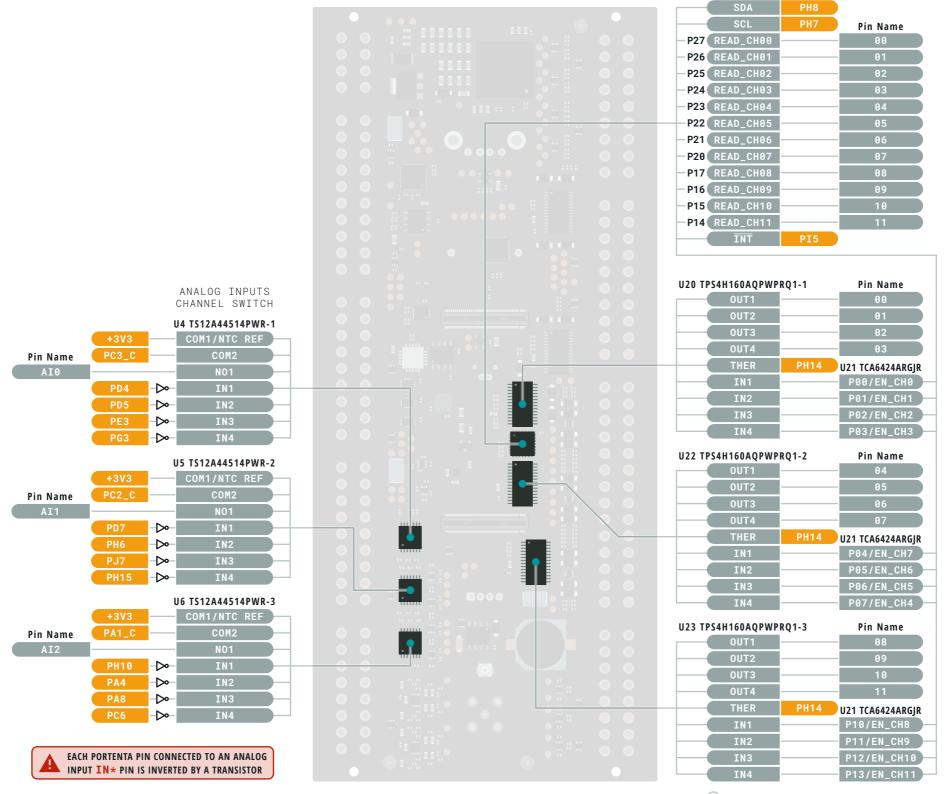
Last update: 11/05/2020





IO EXPANDER U21 TCA6424ARGJR

STORE.ARDUINO.CC/MACHINE-CONTROL



GND is common through the board

BOTTOM VIEW

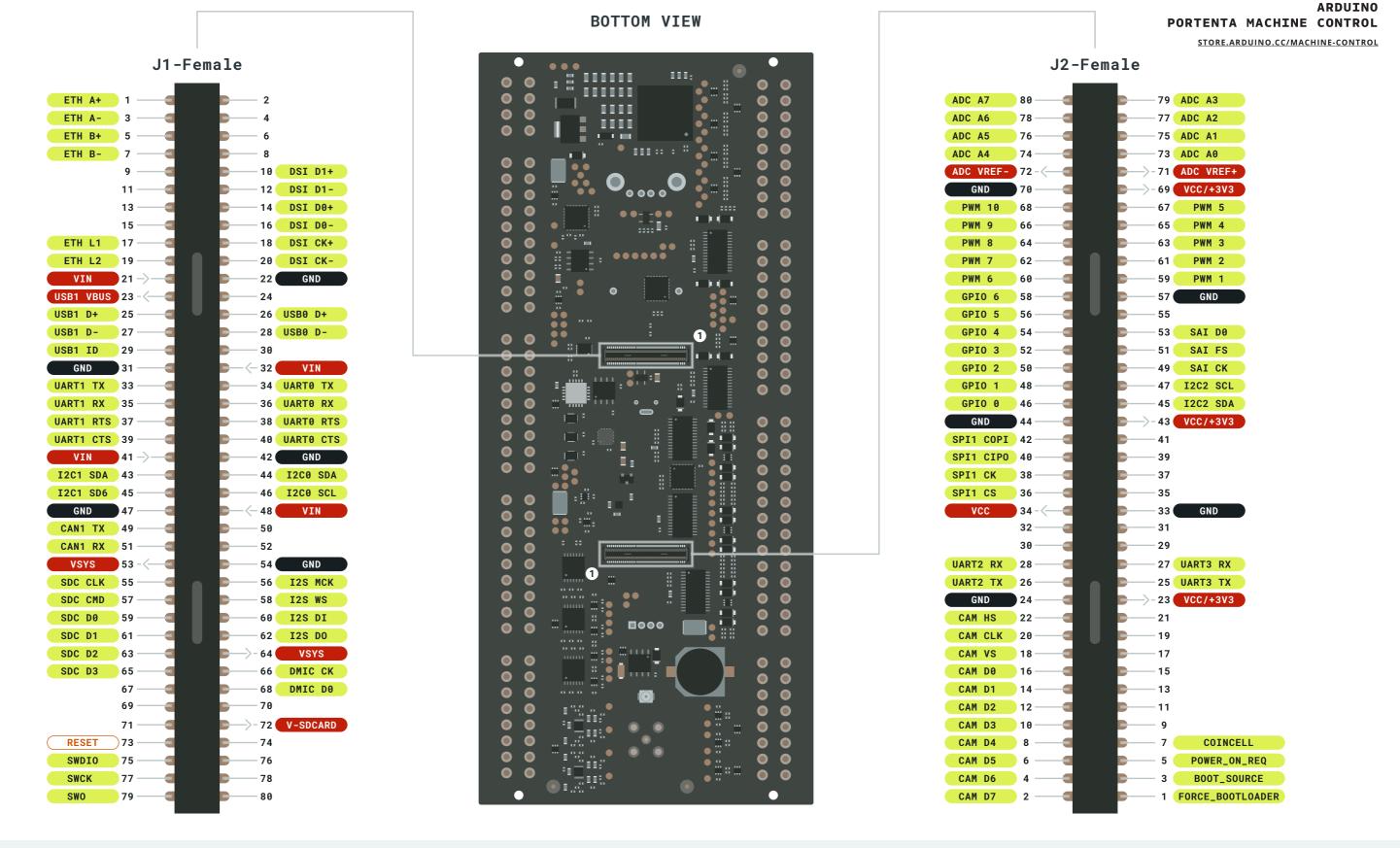
① Digital Programmable THER pins are controlled by PH14

ARDUINO.CC

Last update: 11/05/2020







ARDUINO.CC

Last update: 11/05/2020



GND is common through the board