+12V -12V

+5V +3.3V

0-5V OUT

+/-12V OUT

BUFFER

IN

OUT

BUFFER

IN

OUT

+/- IN0-7

+/- IN8-15

DAC

DAC-IO  
SPI

OUT 0-3  
OUT 4-7

VREF

OUT

ADC

RST  
RDY  
SPI

SDO

IN1

IN2

VREF

+12V -12V +3.3V

ANALOG SW

OUT  
DIO

IN

ANALOG SW

OUT  
DIO

IN

PGA

OUT  
SPI

IN  
DIO

PGA

OUT  
SPI

IN  
DIO

MISO SEL

SEL

SDOA  
SDOB

MISO

RP2040

ADC-IO

SPI0

SDO

MISO-SEL

DAC-IO

DEBUG

SPI1

ADC

VBUS  
+12V  
-12V  
+5V

UART0  
SWIO

GPIO INTERFACE

DEBUG

SPI1

ADC-IO

SPI0

SDO

SEL

DAC-IO