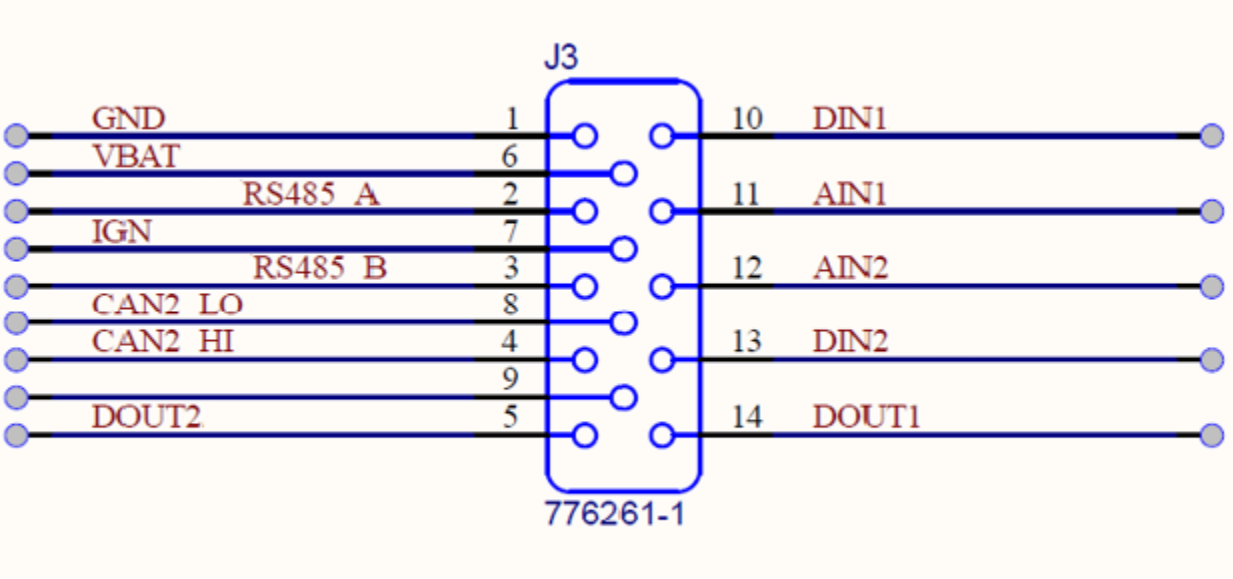
OpenView S70 Display I/O Application Notes

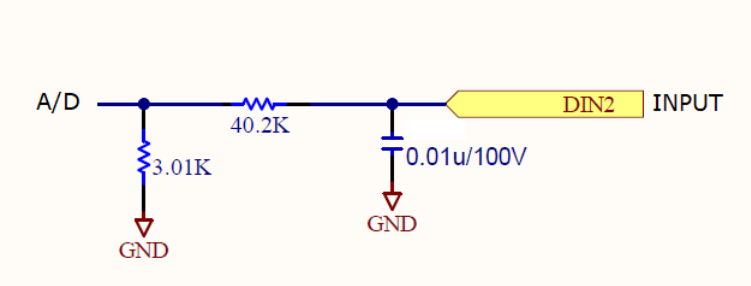
Revised: 5/03/2024



Digital Inputs/0-36V Analog (pins 10 & 13)

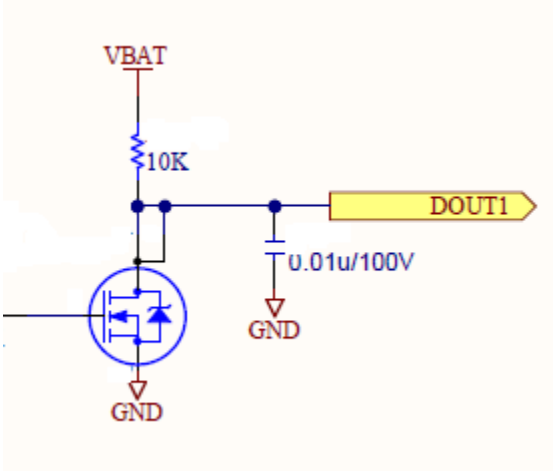
Expects a switch input state of open or closed to Battery + or just a voltage input between 0 – 36Vdc. OpenPV returns the raw voltage value in units of mV which can then be used by the application as needed to represent a on/off switch input or a voltage input from a sensor or battery measurement. Input impedance is approximately 43K ohms.

Resolution – 12bit A/D converter = 4096 counts scaled across 72Vdc for a resolution of 56mV



Digital Outputs (pins 14 & 5)

Open Drain FET output pulled high to Vbatt through a 10K pullup resistor.
Designed to switch the negative side of a signal



Analog Inputs (pins 11 & 12)

Designed for a resistive sensor input only.
Input signal is pulled high to 5Vdc through a 400 ohm pullup resistor
OpenPV returns units of mVdc
Conversion formula: Measured Value = Rin/(Rin + 400) * 5Vdc
Resolution: 12bit A/D converter = 4096 counts scaled over 5Vdc for a resolution of 1.2mV