

Access Control Accessory Port

This simple add-on allows you to control up to 3 secondary devices with ACS

The same interface as a switch is used, so that multiple switches can be wired in parallel

All 5v rails connected, so redundant power and/or switch can power accessories

Switch spec always have reverse polarity diode

Grounded ID pin to show ACS Core that an accessory port is attached

Redriver circuitry provides 20mA @5v drive power to each switch output

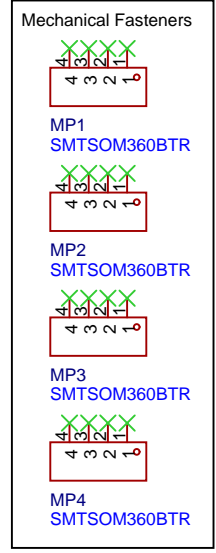
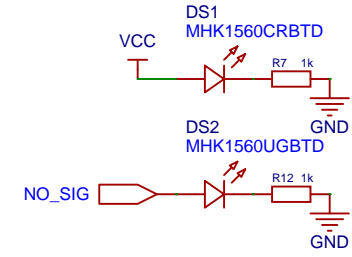
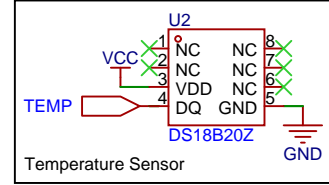
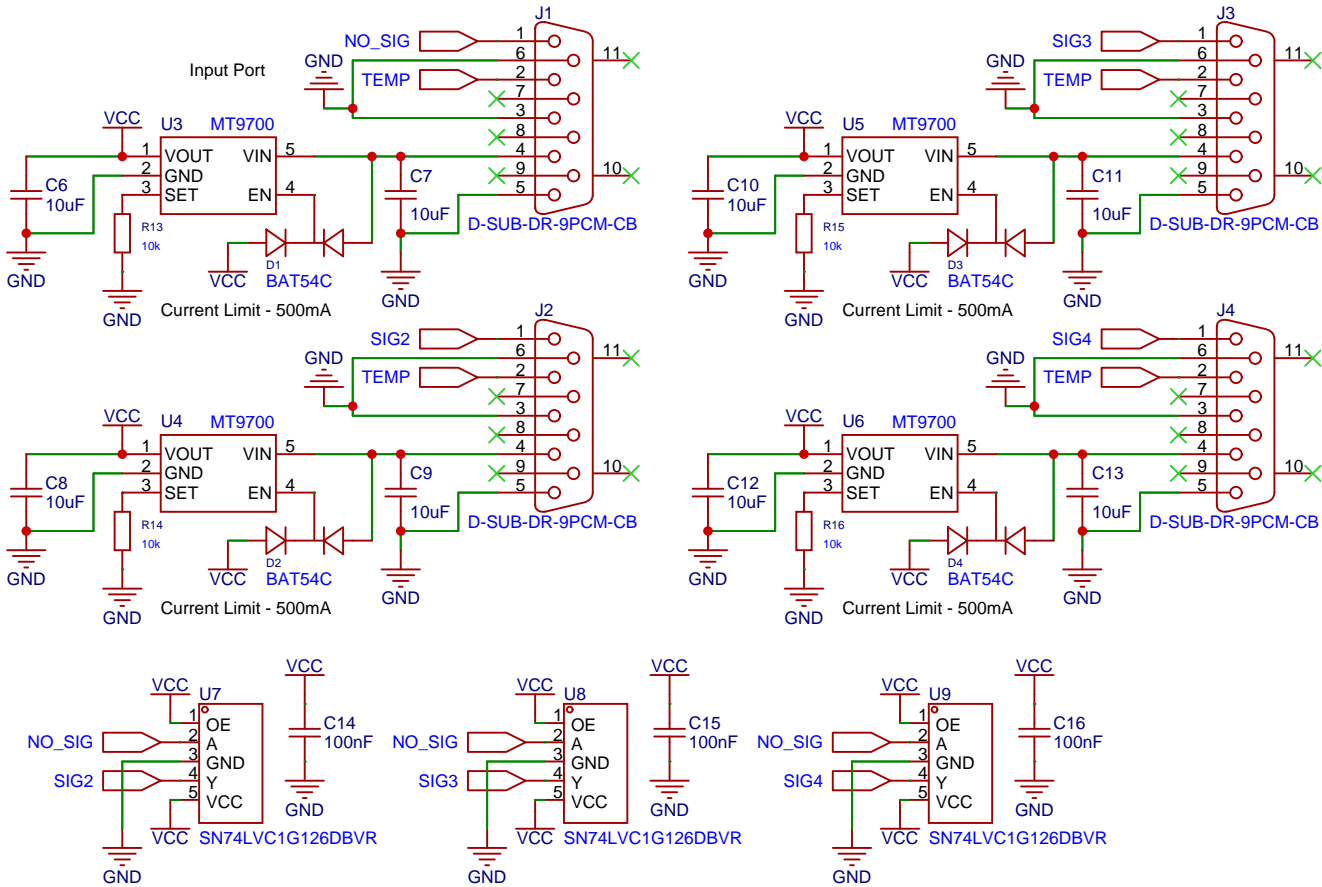
Same OneWire temperature sensor on board to uniquely identify

Status LEDs to show power, switch on, same as normal board

4 DE9 connection on the board, one on each side

Does not matter what connection goes where

Can leave any number unpopulated to make application-specific



Schematic Page	Main Page		Page Number	1
Source Link	https://github.com/rit-construct-makerspace/access-control-hardware		Total Pages	1
Last Updated	2025-06-26	Access Control Expansion Card V2.0.1 Schematic		
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