

DSG-RICH R&D Meeting

Date: August 23, 2021

Time: 11:00 AM – 12:00 PM

Attendees: Mary Ann Antonioli, Aaron Brown, Peter Bonneau, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

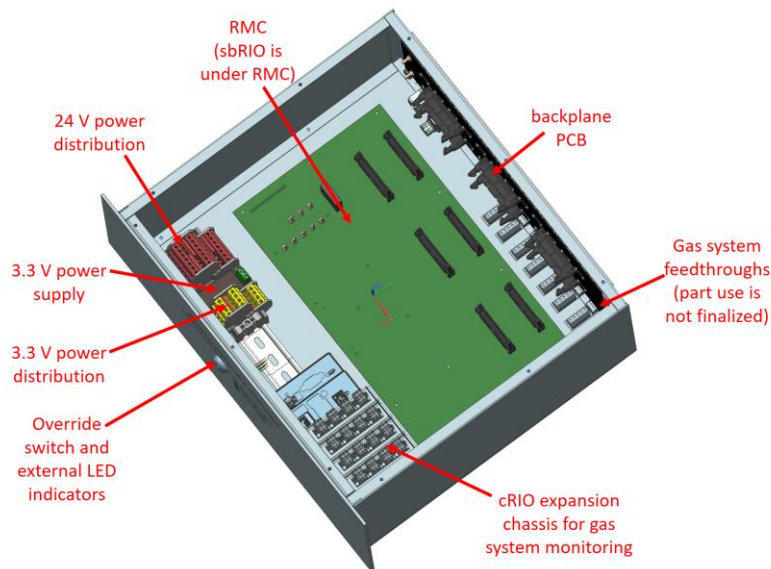
1. Discussed exterior I²C cabling

1. Cable discussed last week has larger overall diameter and individual conductor diameter than most RJ45 connectors can accommodate
 - Waiting for vendor replies on quotes and quantity availability of alternatives
2. Since we know cable lengths need to be ~60 feet, the same cable assemblies as the interior I²C cables could also be used

2. Interlock chassis height increased to 4U (7")

Tyler Lemon

1. Height increased to give more room between backplane PCB and feedthroughs (power, network, and gas system signals)
2. Chassis components rearranged to take advantage of additional space
 - cRIO expansion chassis moved to same DIN rail as power distribution terminals
 - RMC and backplane PCB centered in chassis



3. Backplane PCB routing and placement complete; review underway

Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, Tyler Lemon, and Marc McMullen