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G-FET Fluidic Automation Development - Draft

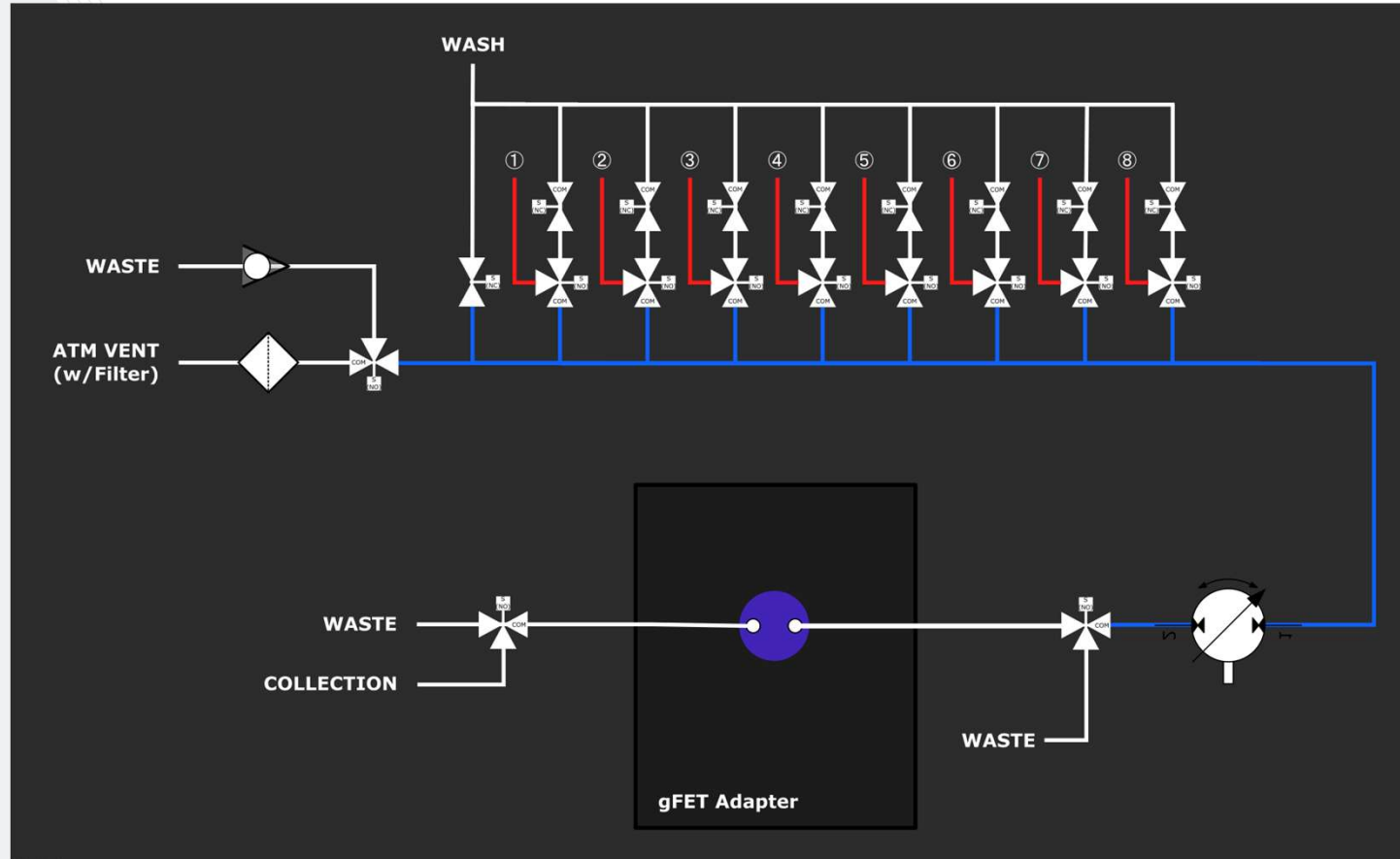
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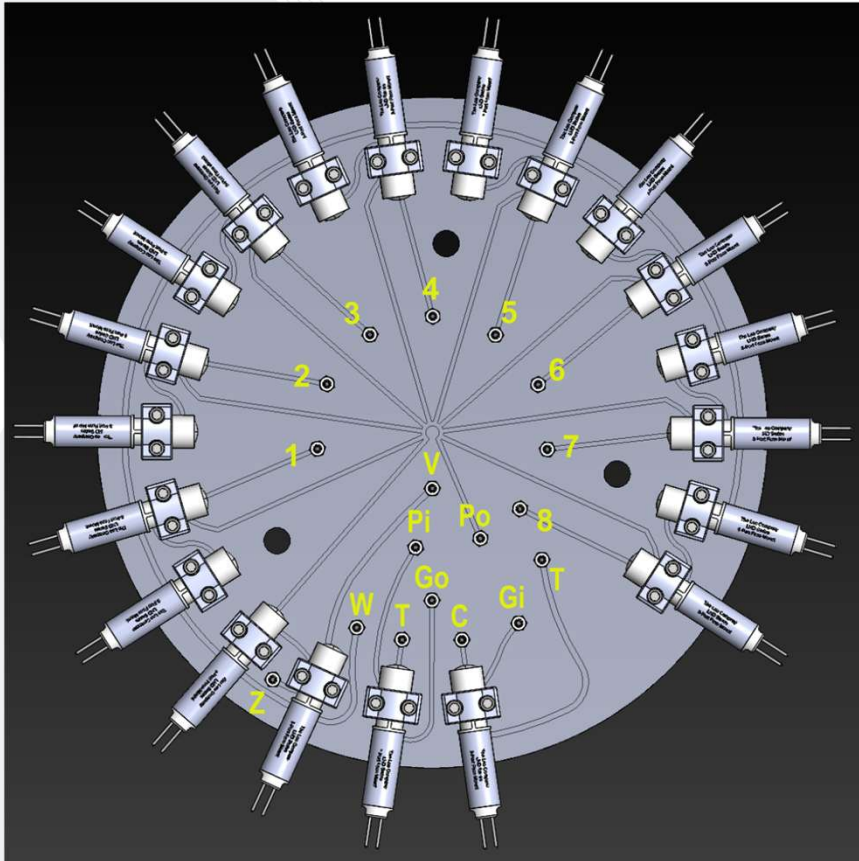
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Fluidic Manifold R2 - Schematic



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Fluidic Manifold R2 - Port Labels



1-8

Reagent Inputs

V

Air Vent (Filter) Input

Po

Out to Pump

Pi

In from Pump

Go

Out to GFET Adapter

Gi

In from GFET Adapter

W

Wash Input

C

Collection Output

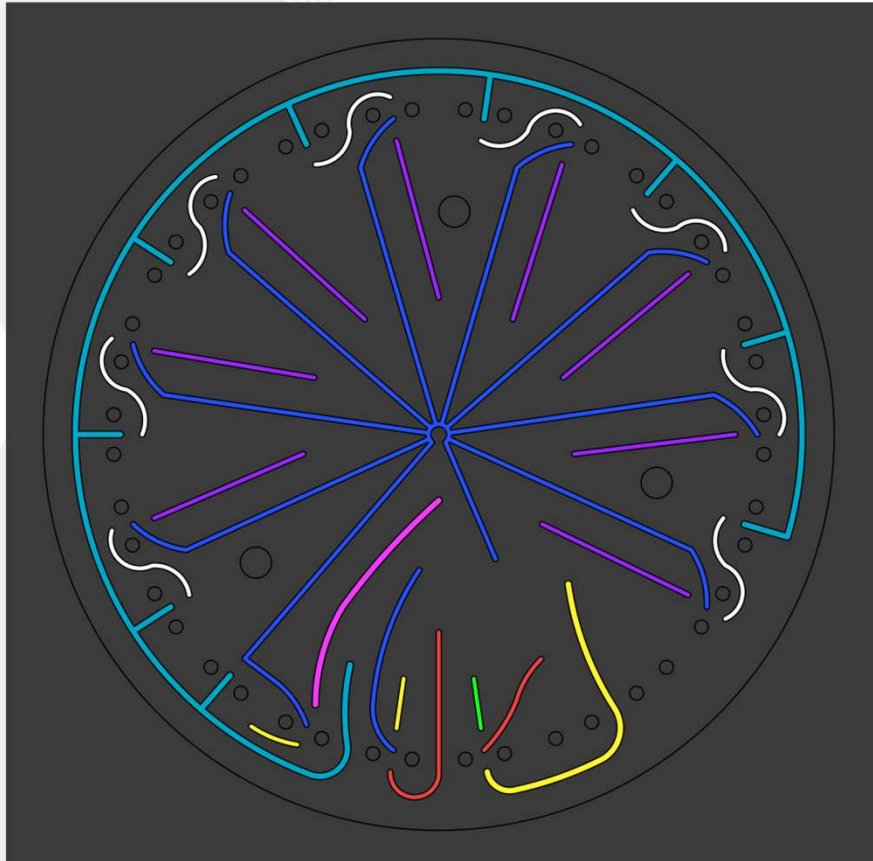
T

Waste Lines

Z

Waste (w/Check valve)

Fluidic Manifold R2 - Routing Diagram



Common, Pump Out, Pump In
Wash
Reagent Inputs
Wash Gate
Waste
GFET Out, GFET In
Air Vent
Collection

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System Assembly



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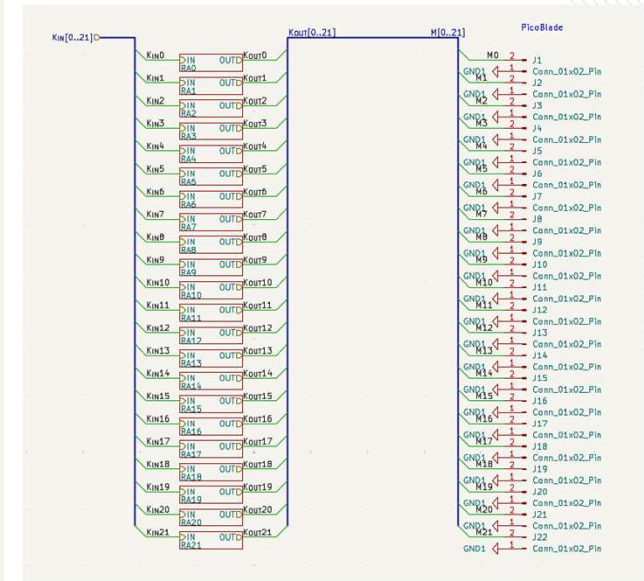
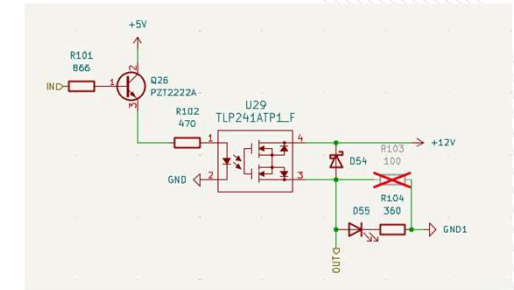
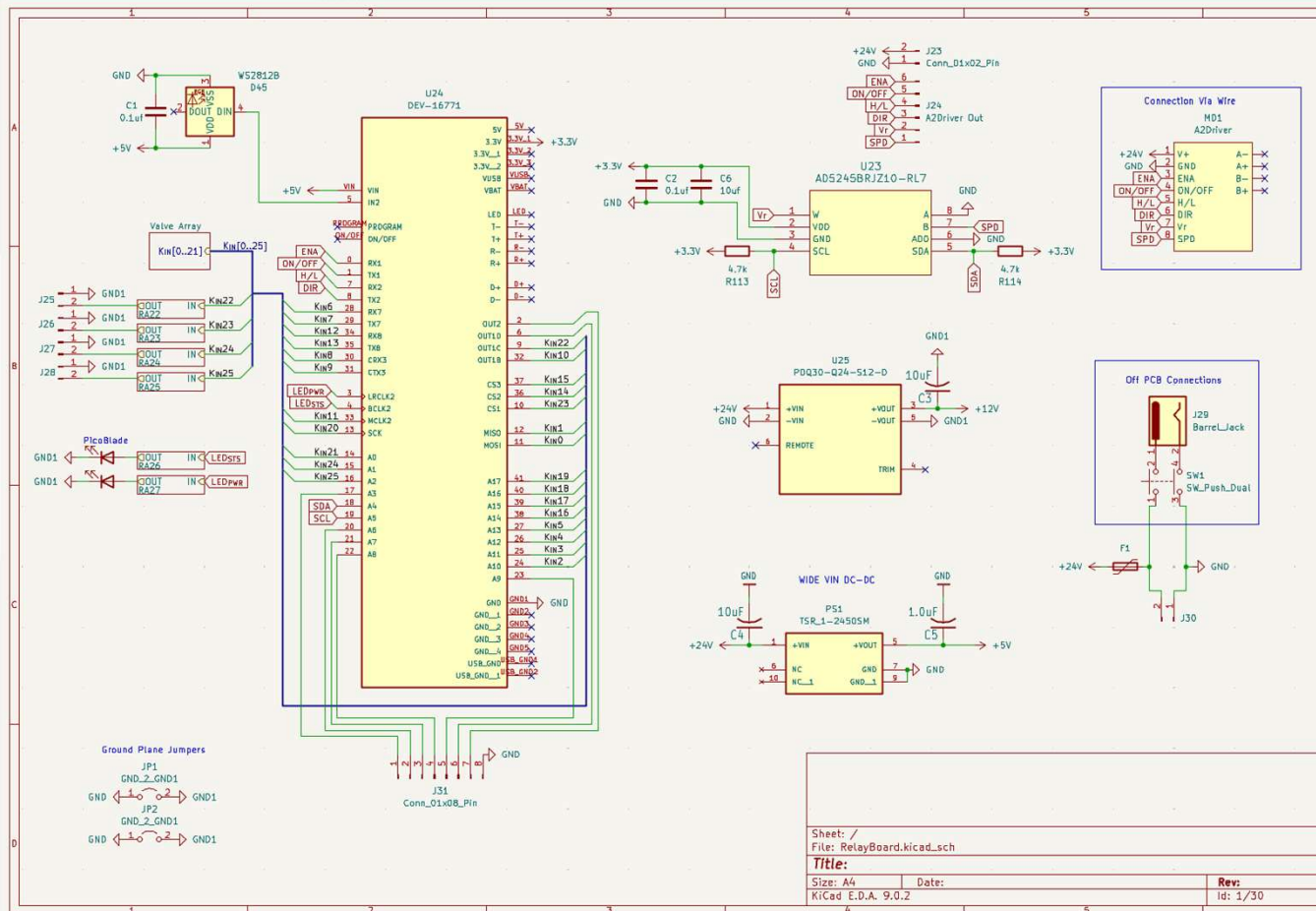
Reservoir / Reagent Storage



- Vial Holder / Rack
- ~20-60mL Reservoir Vials
- Vial Cap with Septum
 - Can be purged with ATM, filtered ATM, or inert gas
- Solvent Needles
- Chemical Compatible Tubing
- HPLC Fittings (or similar)

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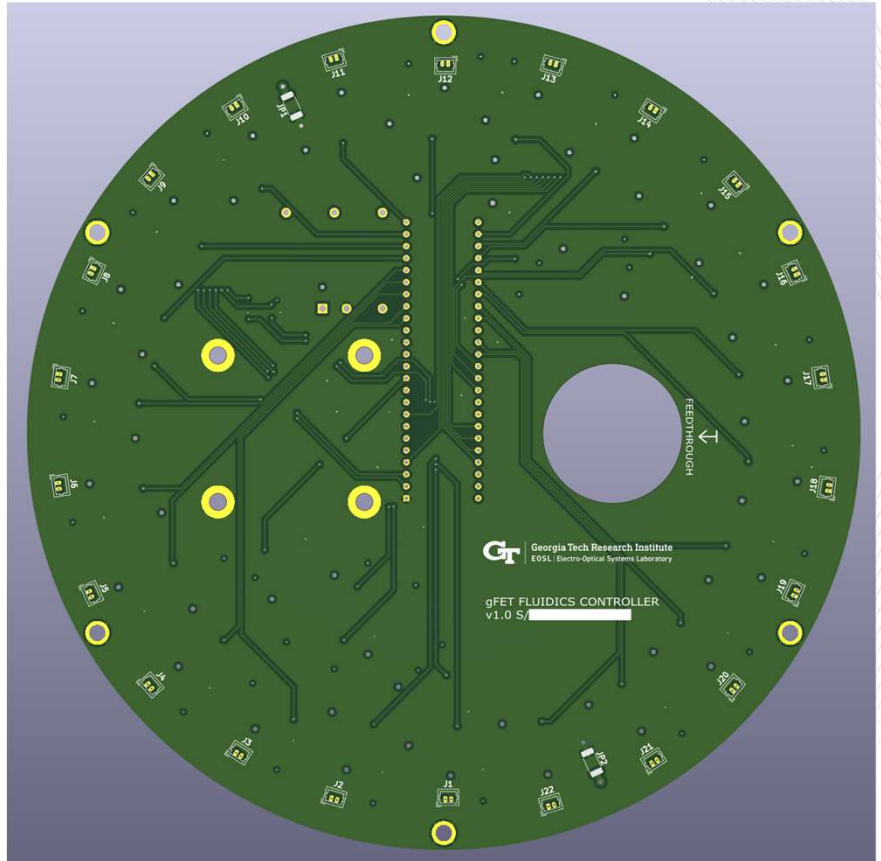
Electrical Schematic



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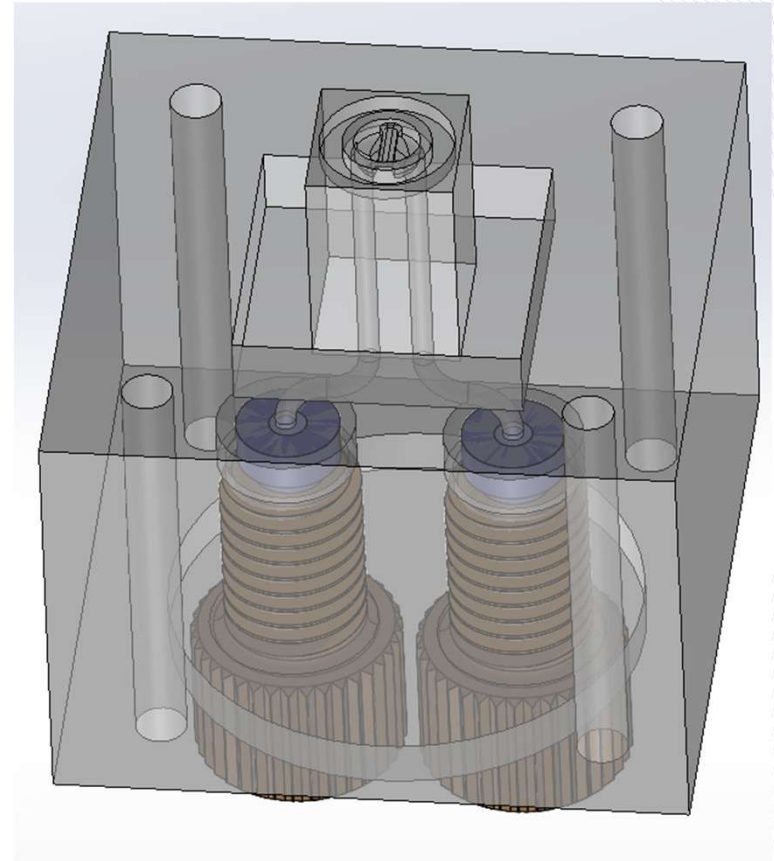
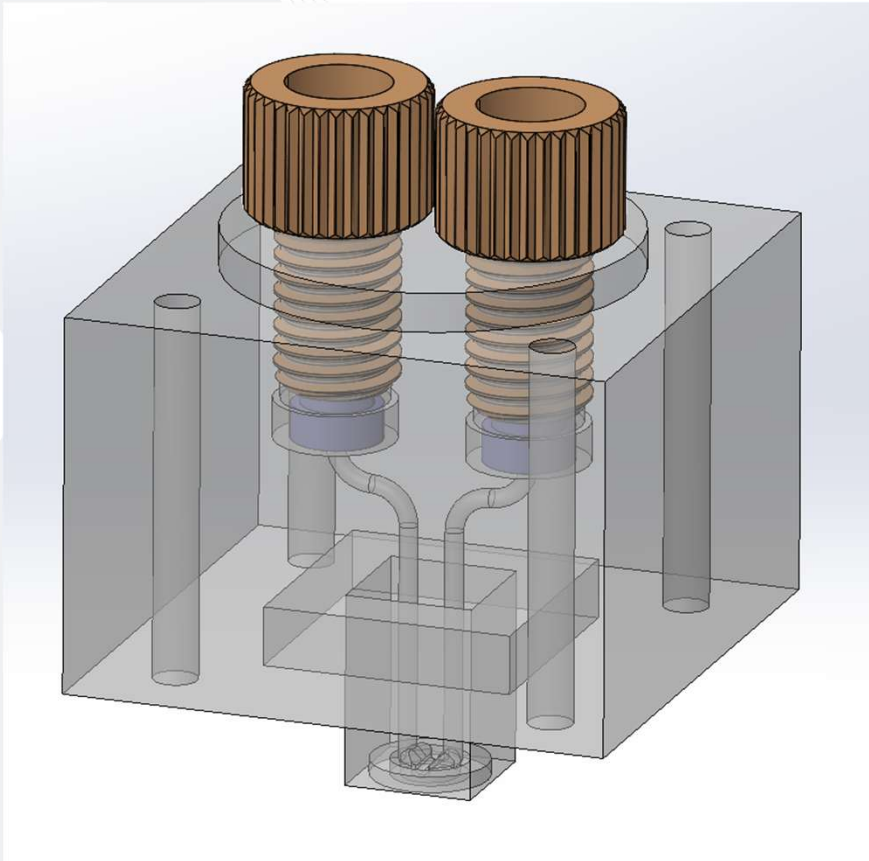
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Circuit Board



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G-FET Fluidic Reservoir Adapter

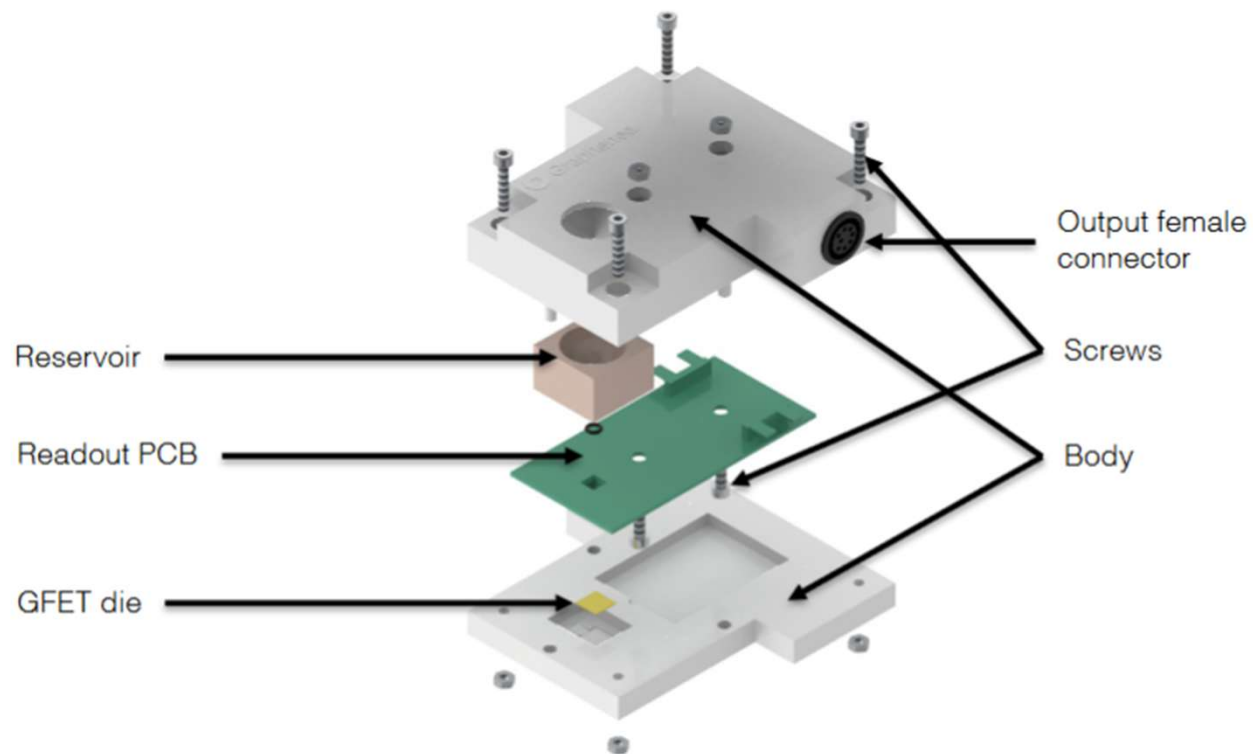


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G-FET Adapter Interface (COTS)

General Schematic



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