

Power Subsystem:

Use TPS 564 for power distribution - high frequency buck conversion

TPS 564 vs LM2575

onboard application

12-5V 12-3.3V at
4A 4A

Cheaper Anduses

in lab components

Small to solder

Easy to use

max 3a

more expensive due to
age

Easy to solder

Critical boards

done →

control →

Actuator boards

lid →

pot →

test these

going to put the reliable switchery on the important boards

LM2575 → control (1A)

LM2576 → done (3A)

TPS → lid / pot (3A / 1A)

Circuit designs

actuation — Morgan's switch