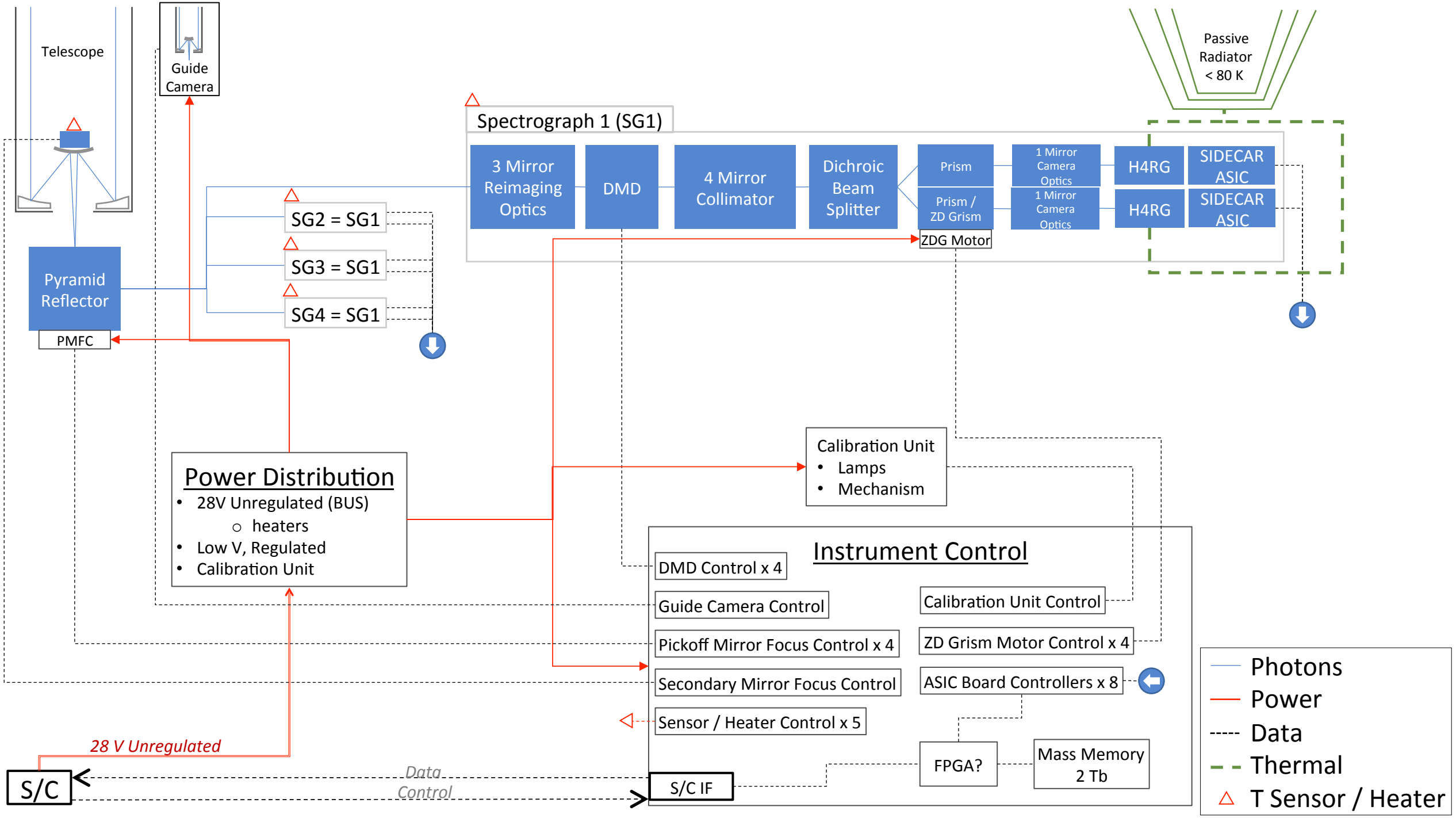
Telescope
Guide Camera
Passive Radiator < 80 K
Spectrograph 1 (SG1)
3 Mirror Reimaging Optics
DMD
4 Mirror Collimator
Dichroic Beam Splitter
Prism
Prism / ZD Grism
1 Mirror Camera Optics
1 Mirror Camera Optics
H4RG
H4RG
SIDECAR ASIC
SIDECAR ASIC
ZDG Motor
SG2 = SG1
SG3 = SG1
SG4 = SG1
Pyramid Reflector
PMFC
Power Distribution
• 28V Unregulated (BUS)
○ heaters
• Low V, Regulated
• Calibration Unit
Calibration Unit
• Lamps
• Mechanism
Instrument Control
DMD Control x 4
Guide Camera Control
Pickoff Mirror Focus Control x 4
Secondary Mirror Focus Control
Sensor / Heater Control x 5
Calibration Unit Control
ZD Grism Motor Control x 4
ASIC Board Controllers x 8
FPGA?
Mass Memory 2 Tb
S/C IF
28 V Unregulated
S/C
Data
Control
Photons
Power
Data
Thermal
T Sensor / Heater