

ELFEN CLIENT PORTFOLIO OVERVIEW

Representing space-qualified propulsion, avionics, and sensor suppliers across the U.S. and Europe

Redwire Defense Tech

Space Sensors · USA & Europe · AS9100



SentinelTRAC Star Trackers

6 arc-sec accuracy
RS-422 (Quaternion) | GigE (image centroids/stills)
45 krad TID | No destructive SEE ≤ 37 MeV-cm²/mg



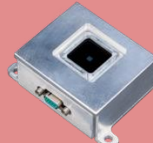
SentinelCAM Space Cameras

5 MP | COTS to Rad-Hard Optics
45 krad TID | No destructive SEE ≤ 37 MeV-cm²/mg
Supporting OpNav, SSA, & RPO missions



SentinelEYE Space Camera

13 MP video camera+ COTS Optics
WiFi, GigE, or RS-422
20 krad TID



Quad Sun Sensors

Accuracy < 1.5° (Center)
50 krad TID
Rad-hard solutions available as CSS Detectors

LEO / GEO / Lunar / Interplanetary

1000+ units flown

50+ years heritage

Edge Aerospace

On-board Networking & Computing · Luxembourg & USA



E1 Data Processing Unit (DPU)

AI / Edge Processing
6x A55 @ 1.8 GHz · NPU · GPU · up to 16 GB RAM · 30 krad
Flight heritage (Transporter-16)
Other permutations also available



S1 Network Switch

High-Speed Networking
4-7x1 GbE + 1-2x10 GbE TSN · 4x A53 @ 1.6 GHz · 4 GB RAM · 30 krad
Other permutations also available

30 krad TID

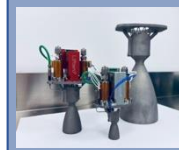
SEL-protected

Falcon 9 qual.

Edge OS Linux

Liftero

Green Chemical Propulsion · Poland, EU · ITAR-Free



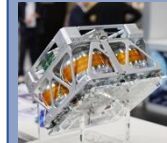
Bipropellant Thrusters

Bipropellant Thrusters: 1 - 200 N (0.25 - 50 lbf)
Non-Toxic, "Green" Propellants | N₂O/C₂H₆
Isp up to 302 sec



Propellant Tanks

Type 1 Aluminum Tanks, 5 - 50L
Up 300 mm diameter x 1000 mm long
80 bar (1200 psia)



BOOSTER Propulsion System (5 - 250 kNs)

Turnkey Propulsion Systems
Thrusters, Propellant Tanks, Plumbing, Electronic Control Unit (ECU)
up to 6 DOF

N₂O / C₂H₆

Isp up to 294 s

Space-proven RED5

EU-built · ITAR-free

Agile Space Industries

Chemical Propulsion & Test Services · Colorado, USA · AS9100



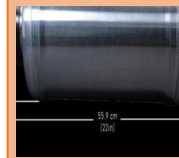
Monopropellant Thrusters

1, 5, 20, 40 N (0.25 - 10 lbf) Thrusters
Hydrazine (N₂H₄)
Isp > 225 sec



Bipropellant Thrusters

40 - 4000 N (10 - 1000 lbf) Thrusters / Engines
N₂H₄/MON3 | M2O/MON3 | MMH/MON3
Isp > 300 sec



Piston Tank

Al-6061 Tanks, 15 - 30 L
99% expulsion · Zero-Slosh



Moab Propulsion System (30 - 250 kNs)

Turnkey Propulsion Systems
Thrusters, Propellant Tanks, Plumbing, & ECU
Up to 6 DOF

N₂H₄ / MMH / MON3

8,000+ hot-fire tests

AS9100 certified