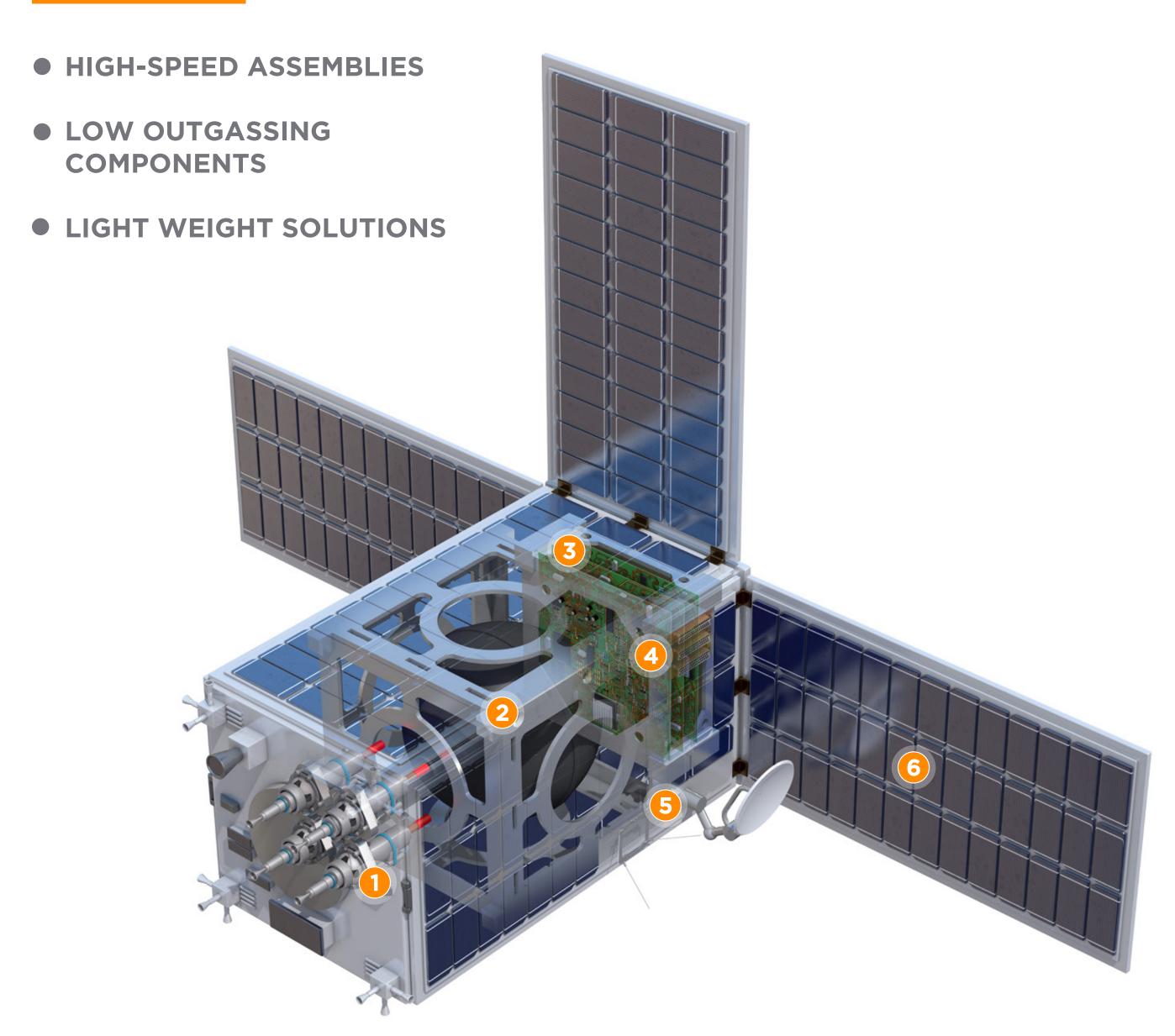


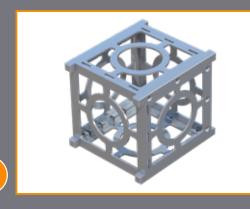
### LEO SATELLITE SUBSYSTEMS





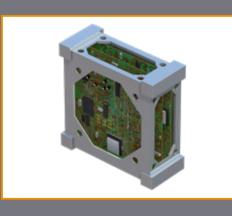
#### **PROPULSION**

- Ruggedized Solutions
- Temperature and Pressure Sensors



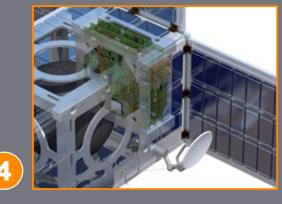
#### **STRUCTURE**

- Cable Management Structure Integration
- Vibration Sensors



#### **DATA AND PAYLOAD**

- PCB Connectors
- Cable Assemblies
- Sensors
- Fibre Optics

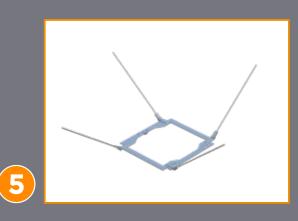


#### **SYSTEM INTERCONNECT**

• Cable Assemblies

• Fibre Optics

- D-Shaped Connectors
- Cable Management



#### COMMUNICATIONS

- RF Connectors and Assemblies
- Cable Management Solutions



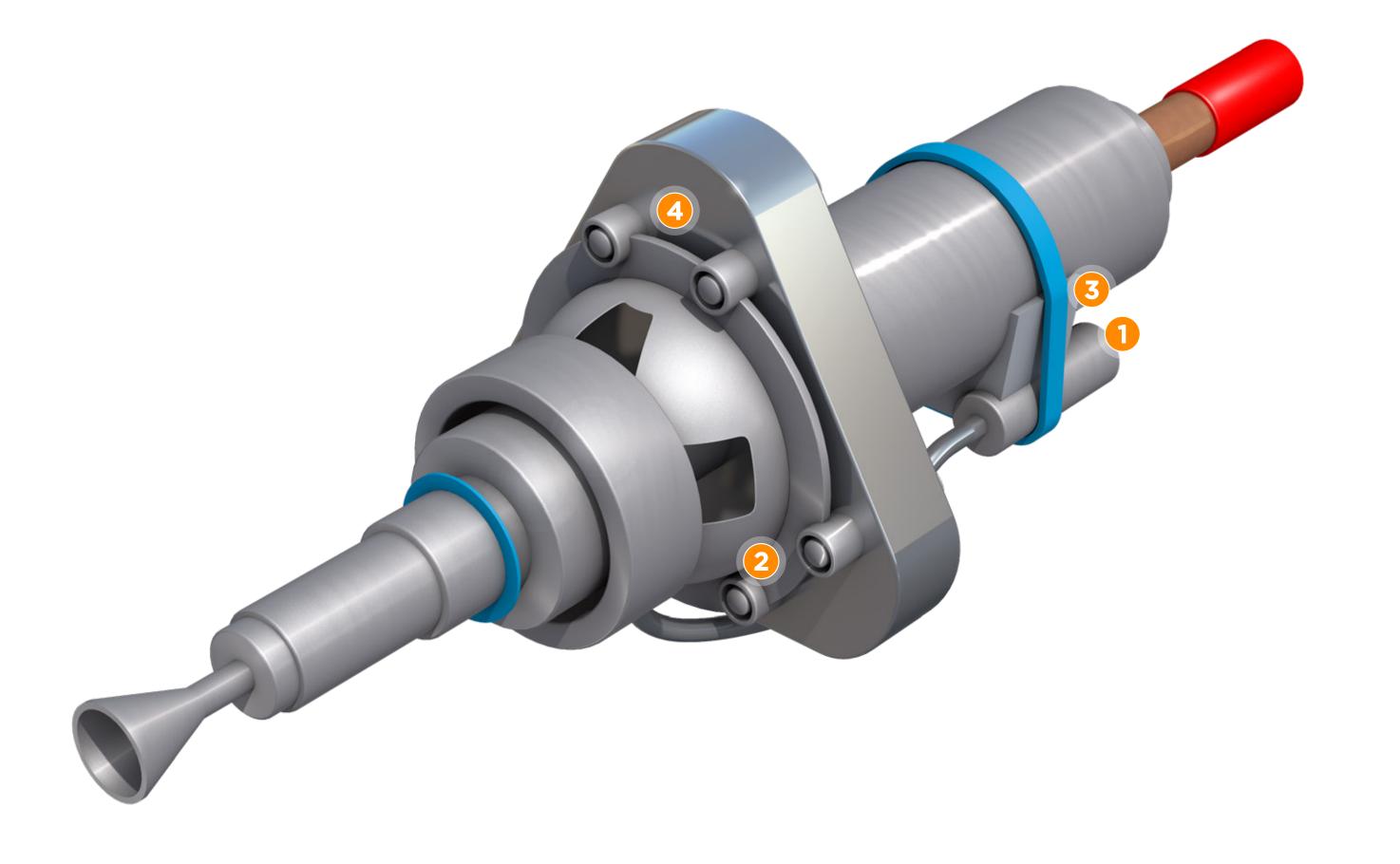
#### **SOLAR PANELS**

- High Temperature and Radiation-Hardened (Rad-Hard) Cable Assemblies
- Relays and Contactors



### PROPULSION SUBSYSTEM

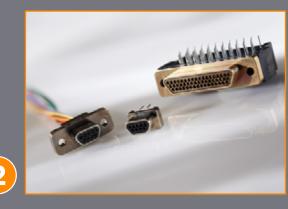
- HIGH VIBRATION
- RUGGEDIZED SOLUTIONS





#### RAYCHEM SPEC 55 SIGNAL AND POWER SPACE WIRE

- Operating Temperature Range: -65°C to +200°C
- ETFE Insulation Material
- NASA compliant
- ESA or Mil-Spec Versions Available
- Ultra Low Fluoride Versions Available



#### MICRODOT CONNECTORS

- D-Subminiature, Micro-D and Ultra-Miniature Connectors
- Mil-Spec Version Available



### HIGH-TEMPERATURE TUBING

- +200°C and +150°C Alternatives
- NASA Spec
- RT-555 High Temperature Heat Shrink Tape
- RT-220 Heat Shrink Tubing
- Raychem RNF-150 Heat Shrink Tubing



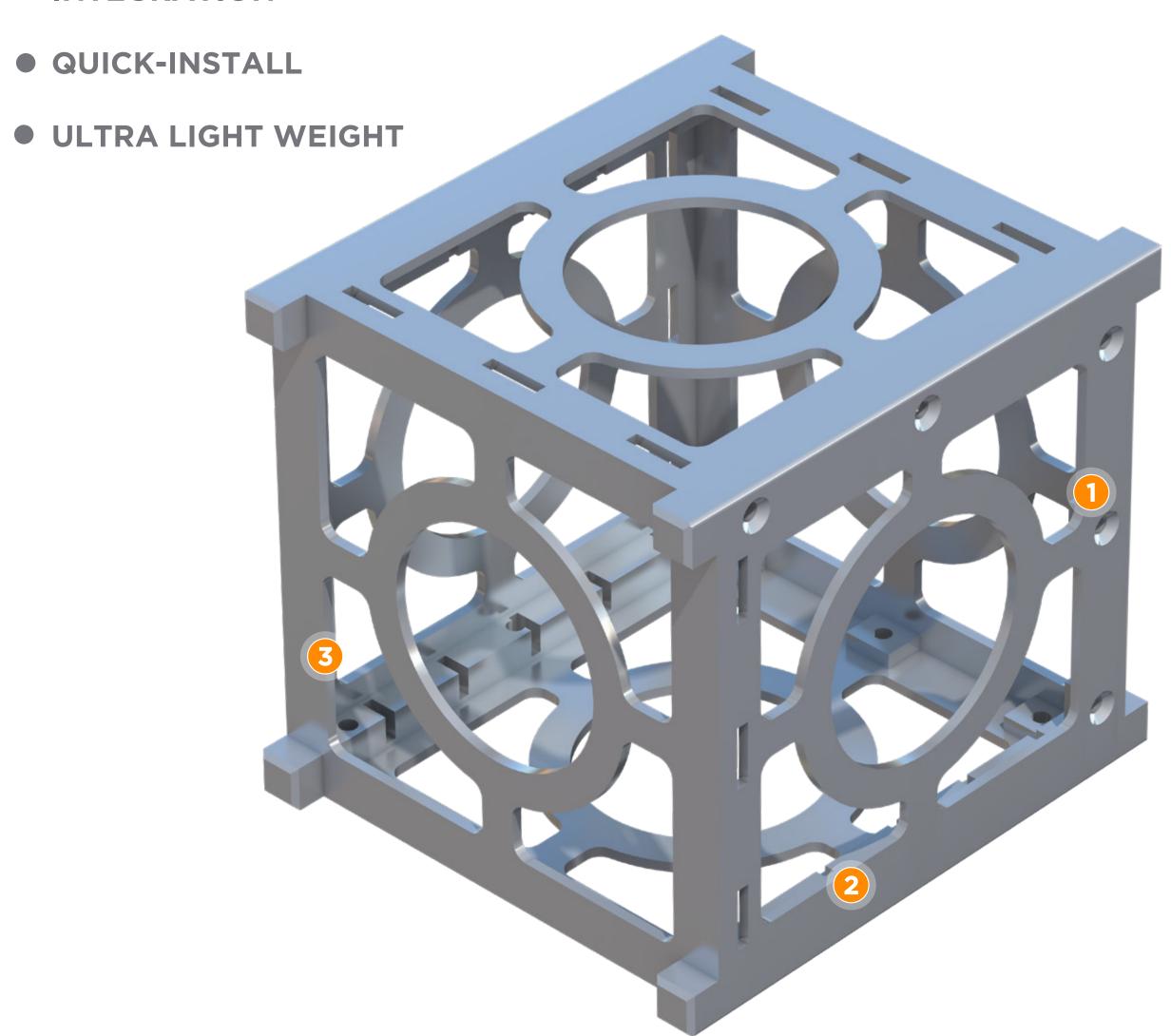
# TEMPERATURE SENSORS

- Low Temperature Satellite Applications
- Temperature Monitoring



# SATELLITE STRUCTURE

 CABLE MANAGEMENT INTEGRATION





#### P-CLAMPS

 Quick Installation Cable Management Solutions



#### ADHESIVE BRACKETS

 Lightweight custom bracket design



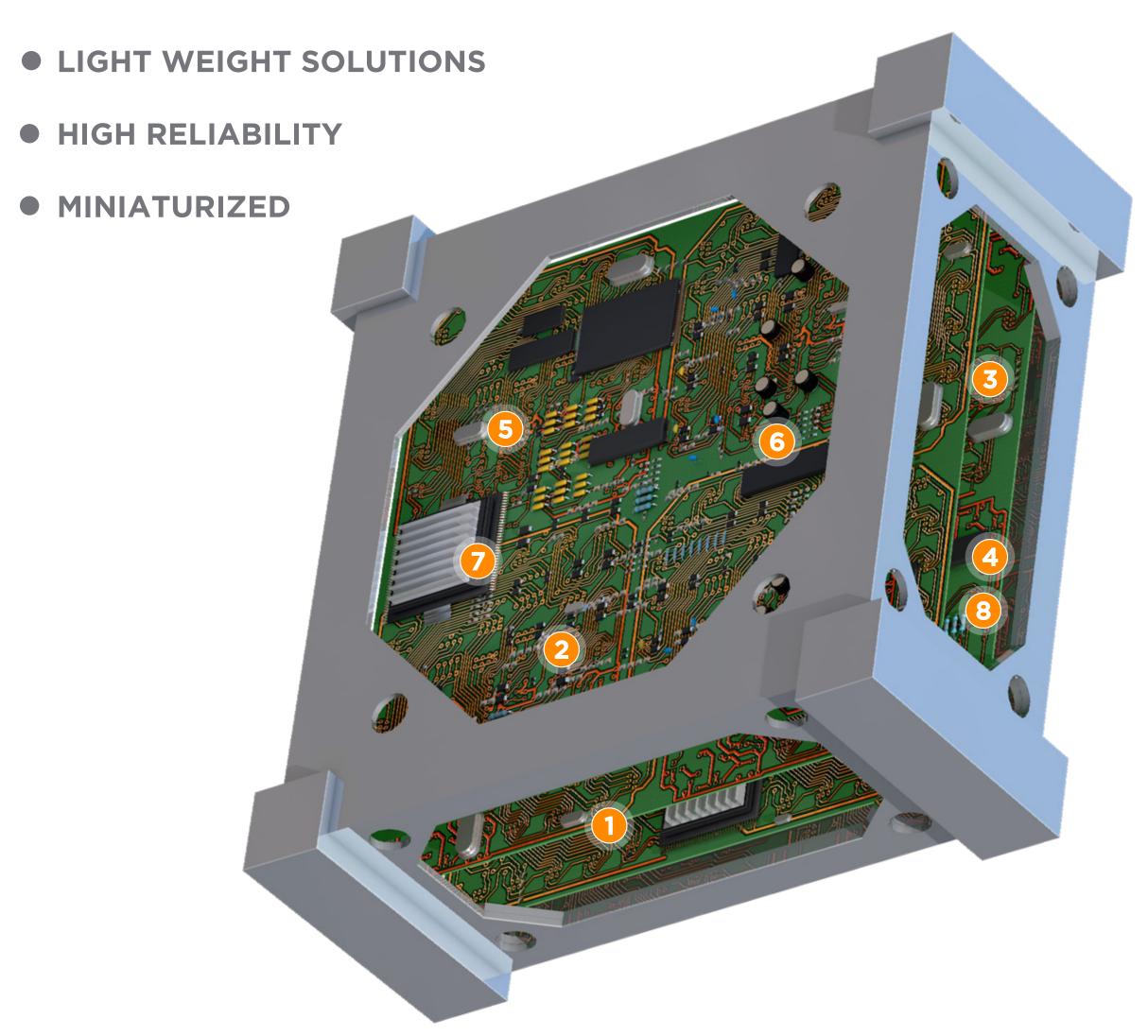
### **VIBRATION SENSORS**

- Accelerometers
- Satellite Structure Monitoring



### DATA AND PAYLOAD

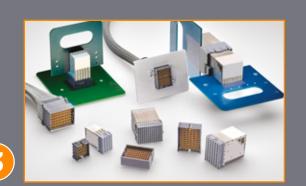
HIGH SPEED





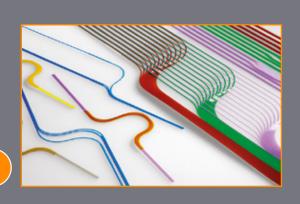
#### **MULTIGIG RT 2-R CONNECTOR**

- PCB Connector
- High Density
- High Speed



#### **STRADA WHISPER CONNECTORS & CABLES**

- High Density
- High Vibration Resistance



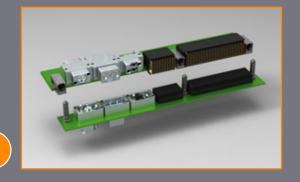
#### **FIBRE OPTIC ASSEMBLIES**

- Optical Flex Circuits
- High Density
- Ultra Light Weight
- EMI Resistance



#### **GOLD CHIP THERMISTORS**

• Satellite Camera & Telecom Systems



#### **SPACE VPX SOLUTIONS**

- VITA 78
- VITA 67 RF Interface
- VITA 66 Optical Modules



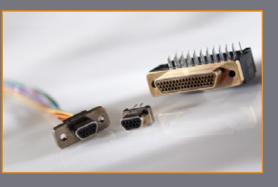
#### **TERMINALS & SPLICES**

- Solistrand Terminals and Splices
- COPALUM Terminals and Splices



#### **RESISTORS**

- Surface Mount
- Through-hole
- Chassis Panel Mount



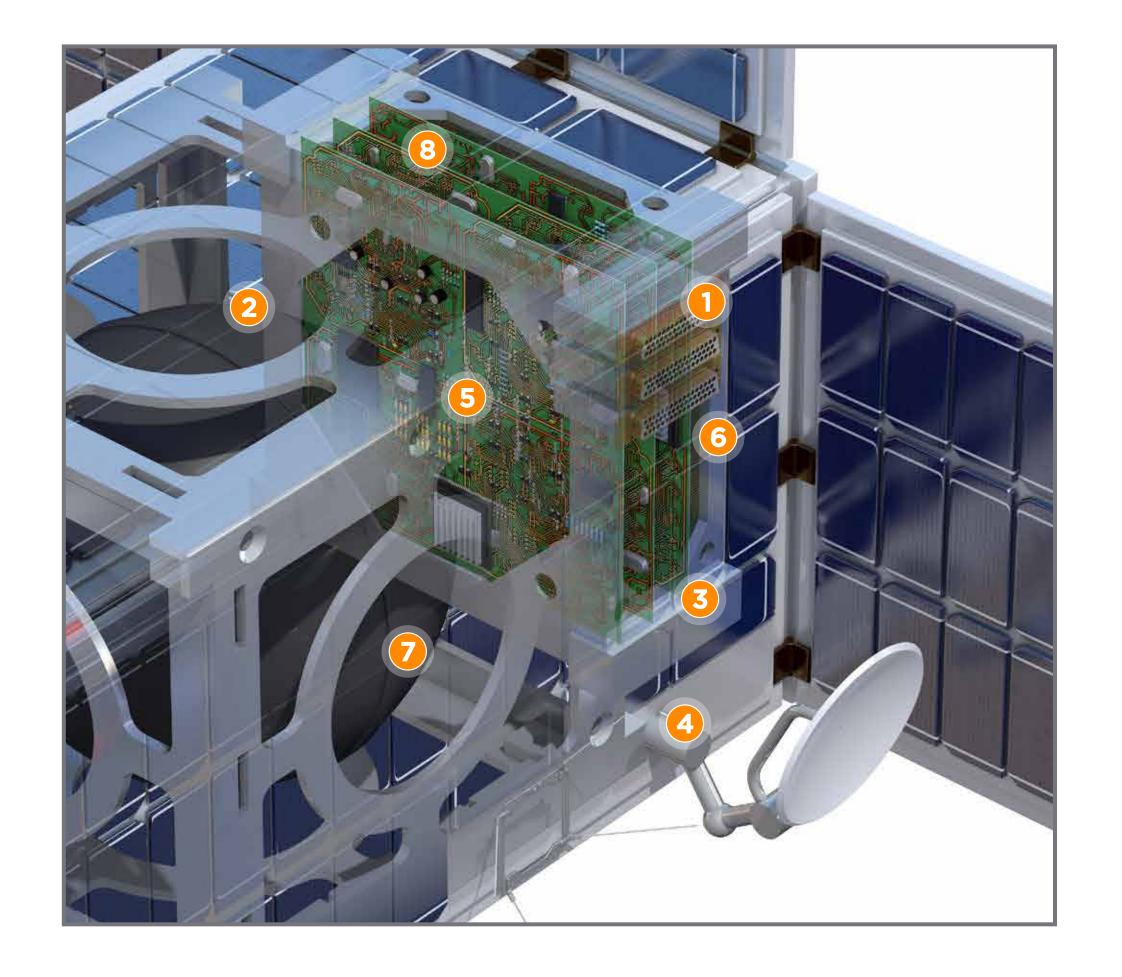
#### **MICRO-D NANOMINIATURE CONNECTORS**

- D-Sub, Micro-D and Nano-D
- NASA Spec
- Mil-Spec Available



### SYSTEM INTERCONNECT

- EMI RESISTANCE
- LIGHT WEIGHT SOLUTIONS
- HIGH RELIABILITY





#### RECTANGULAR **CONNECTORS**

- D-Subminiature Connectors
- Micro-D and Nano-D
- NASA Spec
- MTC Connectors



#### **RAYCHEM SPEC 55** LOW FLUORIDE ETFE **SPACE WIRE**

- NASA Compliant
- Mil-Spec Approved
- Low Outgassing



#### **SOLDERSLEEVE DEVICE FOR SPACE**

- Strain Relief with Ratings up to +150°C
- Tensile Strengh up to 15 Pounds
- One-Step Shield means Easy Inspection



### **VACUUM EQUIPMENT**



### **CIRCULAR CONNECTORS**

- DEUTSCH DBAS Series Connector
- ESA Approved
- RSM Connector
- D38999 Space Grade Connectors



#### **RF CONNECTORS & RF ASSEMBLIES**

- SMA, SMP, BNC connectors
- High Frequency (Ka-Band)
- High Flexibility
- High Temperatures



#### **369 SPACE GRADE CONNECTORS**

- EMI Protection
- Circular Backshells

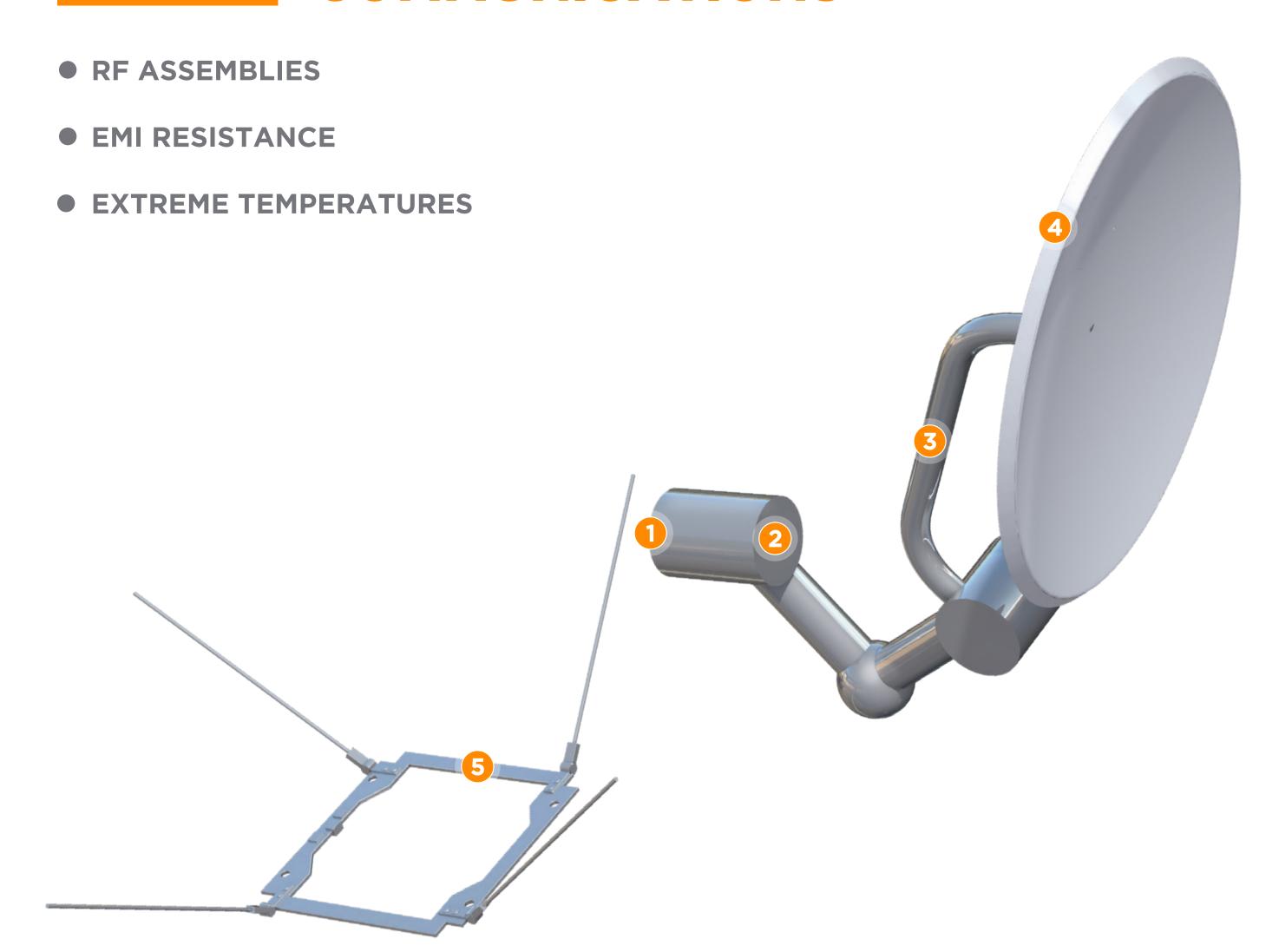


#### **BACKSHELLS**

- Small Form Factor with simple push pull mating
- Lightweighty at 2.9 g per mated pair
- Integrated tie down reduces installation complexity



# COMMUNICATIONS





#### RF ASSEMBLIES

- Cheminax RF Cable
- SMA, SMP, BNC Connectors and Assemblies



#### **BACKSHELLS**

- EMI Protection
- Circular Backshells



#### **RAYCHEM INSTALITE** LIGHTWEIGHT BRAID

- Up to 50% Lighter than Traditional Copper Braids
- EMI Protection
- Radiation Protection



#### **SENSORS**

- MEAS Space Qualified Sensors
- ESA, NASA Approved
- Radial, Bead and Custom Packages Types



- EMI Resistance

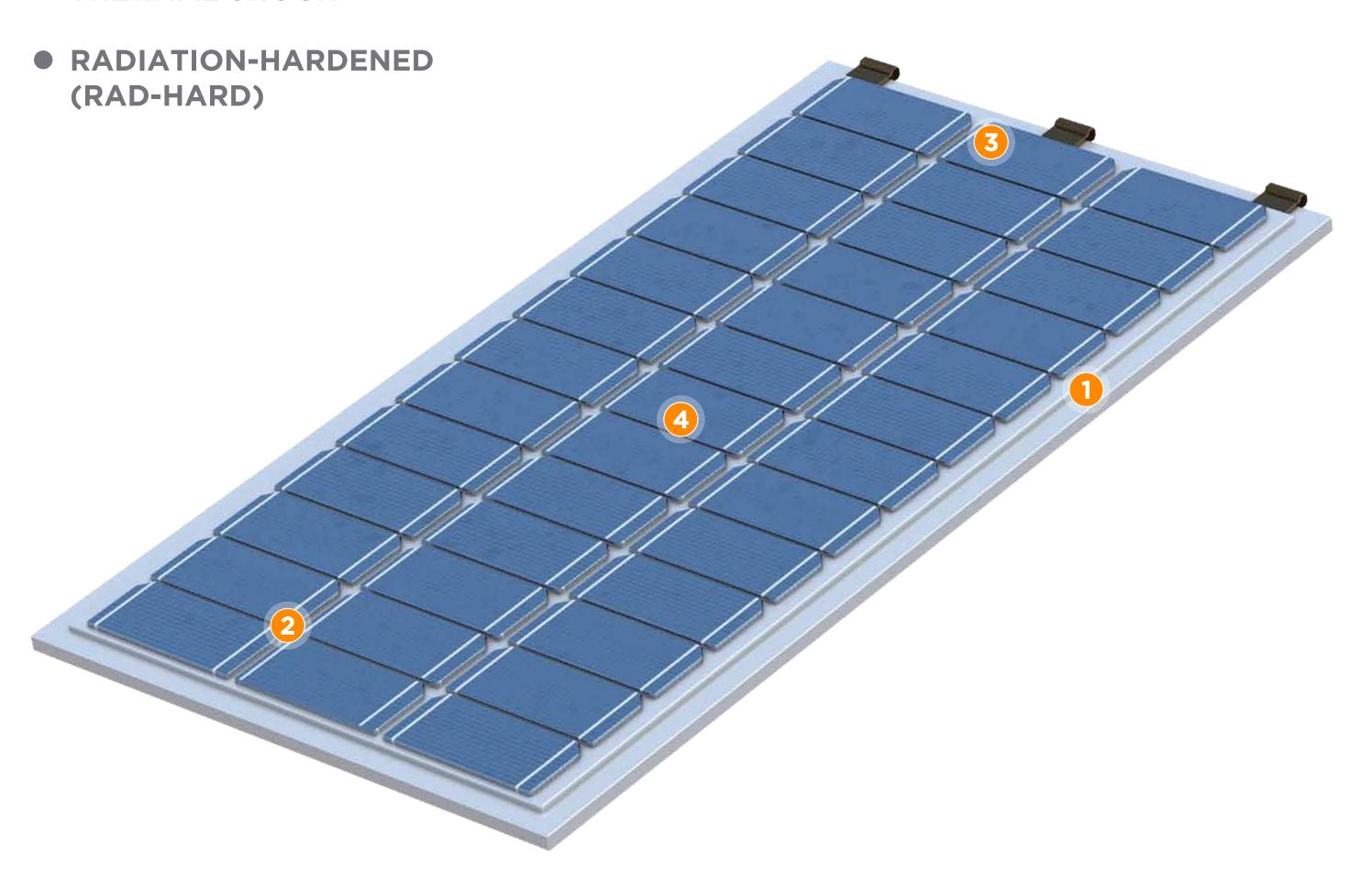


- Optical Flex Circuits
- High Density
- Ultra Light Weight



### **SOLAR PANELS**

- LIGHT WEIGHT
- THERMAL SHOCK





### FLEXIBLE POWER CABLES

- Low Outgassing
- Small Bend Radius
- Abrasion Resistant



# RECTANGULAR AND FLAT CONNECTORS

- D-Sub Connectors
- DEUTSCH D-Paso Series Connectors
- Lighweight
- MTC Connectors



# RELAYS AND CONTACTORS

- HARTMAN N200 and N400 Series Contactors
- CII Hermetic Relays
- NASA Qualified MA and MAD Family



# TEMPERATURE SENSORS

- Satellite Thermal Control Management
- Solar Array Panel Temperature
- Battery Temperature Management
- ESA Qualified
- NTC Thermistor, NASA Qualified

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