

SSTL sub-systems and services



SSTL supports a wide range of small satellite products and services, with a core business of providing turn-key space missions, which can include elements of training for your organization. SSTL offers a number of services appropriate to your space mission. Sub-systems are appropriate for a variety of design-to-cost missions from LEO to GEO, and can be tailored to requirements. SSTL has recently acquired the Intellectual Property rights to SIL (UK) sub-systems.

Applications

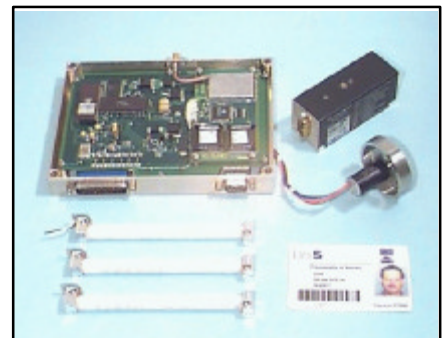
- Nano, Micro and Minisatellites
- Spacecraft in LEO, and GEO
- Space Science, EO, Communications and Technology Validation

Sub-systems

- **ADCS**
 - Small reaction and momentum wheels
 - Torque coils and torque rods
 - Magnetometers
 - Sun Sensors
 - GPS attitude receiver
- **Data Handling**
 - CAN based local area network
 - INTEL 80C186 based On-Board Computer
 - INTEL 80386/7 based On-Board Computer
 - StrongArm based On-Board Computer
 - Transputer based image processor
 - Digital Signal Processor board
- **Ground Support**
 - CCSDS packetiser / depacketiser
 - Uplink sweep generator
 - Low cost groundstations (VHF/UHF/S-band)
- **Instruments**
 - Medium resolution cameras
 - Machine Vision video imaging system
 - Radiation monitoring payload
- **Navigation**
 - GPS receiver
- **Power**
 - Complete power systems regulated/unregulated
 - NiCd Battery
 - Battery Charge Regulator
 - Power conditioning / Power distribution
- **Propulsion**
 - Cold-gas systems
 - Low thrust butane propulsion system
 - Controller electronics
 - Resistojets
- **Software**
 - Operating systems (PACSAT / LINUX)
 - SILORB - Astrodynamics modeling
 - SILMAG - Geomagnetic field modeling
 - SILPMP - Power management
 - SILBUD - System budgeting
- **Structure**
 - Separation systems
 - Instrument and Gravity Gradient booms
- **TT&C**
 - VHF, UHF, L-band, S-band, X-band
 - transmitters and receivers
 - transceivers
 - Diplexer
 - Conical spiral, quadrifilar, patch, and blade antennas

Services

- Programme management
- Mission design
- Systems engineering
- Low cost launch consultancy
- Expert witnesses
- Electronic design for space
- Mechanical design for space
- Flight manufacturing to ESA standards
- Solar cell lay-down
- Space Operations
- Custom short courses



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SSTL-9999-01 07/11/00. This data sheet is for preliminary information purposes and can be changed without any notice. Please contact SSTL (see above) for further information.

Please contact SSTL to discuss your detailed requirements for sub-systems and services with our engineers and business development staff.

affordable access to space