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Satellite Payloads and
Satellite Systems
SCOPE OF ACTIVITIES

Satellite Payloads
- Communication Payloads (X, Ku, EHF, UHF, Ka Band)
- SAR Payloads
- Electro-optical Payloads

Satellite Systems
- High Speed Data Transmitters
- Telemetry & Telecommand Subsystems
- Compression, Storage and Formatting Unit (CSFU)
- Security Units

CAPABILITIES

- System / Subsystem Design
- Payload Design & Production
- Payload Integration & Test Services
- Software Development
- Electrical and Mechanical Ground Support Equipment Design & Production
COMMUNICATION SATELLITE PAYLOADS & EQUIPMENT

**X-Band Payload**
- Channel Amplifier (CAMP)
- Frequency Down Converter (DOCON)
- Payload Interface Unit (PIU)

**Ku-Band Payload**
- Frequency Down Converter (DOCON)
- Low noise Amplifier (LNA)
- Input Multiplexing Network - INET
- Output Multiplexing Network - ONET
- Antenna
- Payload Interface Unit (PIU)

**EHF-Band Payload (On-Board Processing)**
- Baseband Subsystem
  - Demodulator
  - Modulator and Management Unit
- Antenna Subsystem
  - Solid State Power Amplifier (SSPA)
  - Low noise Amplifier (LNA)
  - Divider
  - Combiner
  - Transmit Antenna (Phased array)
  - Receive Antenna (Beam Switching)
SURVEILLANCE AND RECONNAISSANCE SATELLITE SUBSYSTEMS & EQUIPMENT

- SAR Payloads
  - Antenna Subsystem
  - Receive / Transmit Unit
  - Control & Preprocessing Unit
  - Power Distribution Unit
- Electro-Optical Payloads
- Communication Subsystem
  - X-Band Telemetry Units
  - S-Band Telemetry & Telecommand Units
  - Security Units
- Compression, Storage and Formatting Unit
- High Speed Data Transmitters
INFRASTRUCTURE

- Production and Integration Area
- Environmental Analysis (Thermal / Shock / Vibration / Radiation)
- Thermal Vacuum Chamber (TVC)
- Environmental Conditions Testing (Thermal / Shock / Vibration)
- EMI/EMC Tests (MIL-STD-461E/F Compatible)