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Satellite Payloads and
Satellite Systems



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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)

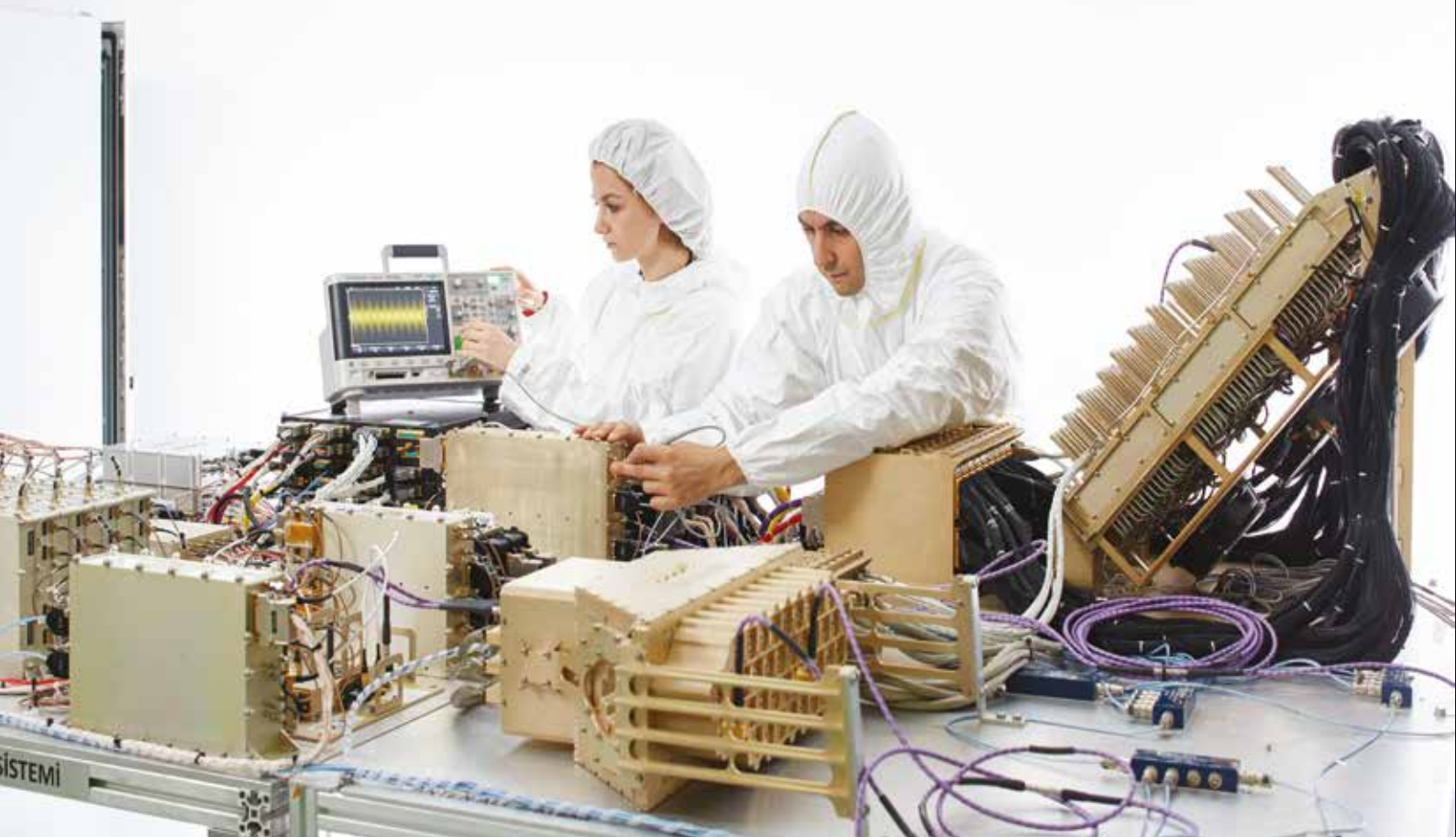


SURVEILLANCE AND RECONNAISSANCE SATELLITE SUBSYSTEMS & EQUIPMENT

- 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)





Your Strategic
Partner In Space

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ASELSAN A.Ş. is a Turkish Armed Forces Foundation company.

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