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## Condor-E

The Condor-E small spacecraft (SSC) with a synthetic aperture radar (SAR) is designed to obtain, store and transmit high-resolution microwave remote-sensing (RS) data to ground receiving and processing stations.

The SAR provides around-the-clock all-weather acquisition of the Earth's surface.

Components of the Condor-E SSC with SAR:

Unified spacecraft bus (USB):

- onboard control system;
- data gathering system;
- data transfer system (DTS);
- propulsion system;
- thermal control system;
- power generation system.

Synthetic aperture radar.

Características básicas:

- SSC characteristics:
- Operational orbit parameters:
  - altitude, km: 450-900
  - inclination, ang.min.: up to 98
- Weight, kg: up to 1,150
- Payload weight, kg: up to 350
- Downlink data rate, Mbit/s: 350
- DTS frequency band: C, X
- Active service life, year: to 10

SAR characteristics:

Frequency band: X, C, S, L\*

Coverage, km: 2x500\*\*

Swath, km:  $\geq 10$

Resolution, m:  $\geq 1,0$



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Акционерное общество

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