

# ATLANTIC BIRD™ 2

Digital services  
and multimedia challenges

**Alcatel Space has been chosen once again by EUTELSAT, this time to build the newest addition –ATLANTIC BIRD™ 2– to the organisation's satellite fleet**

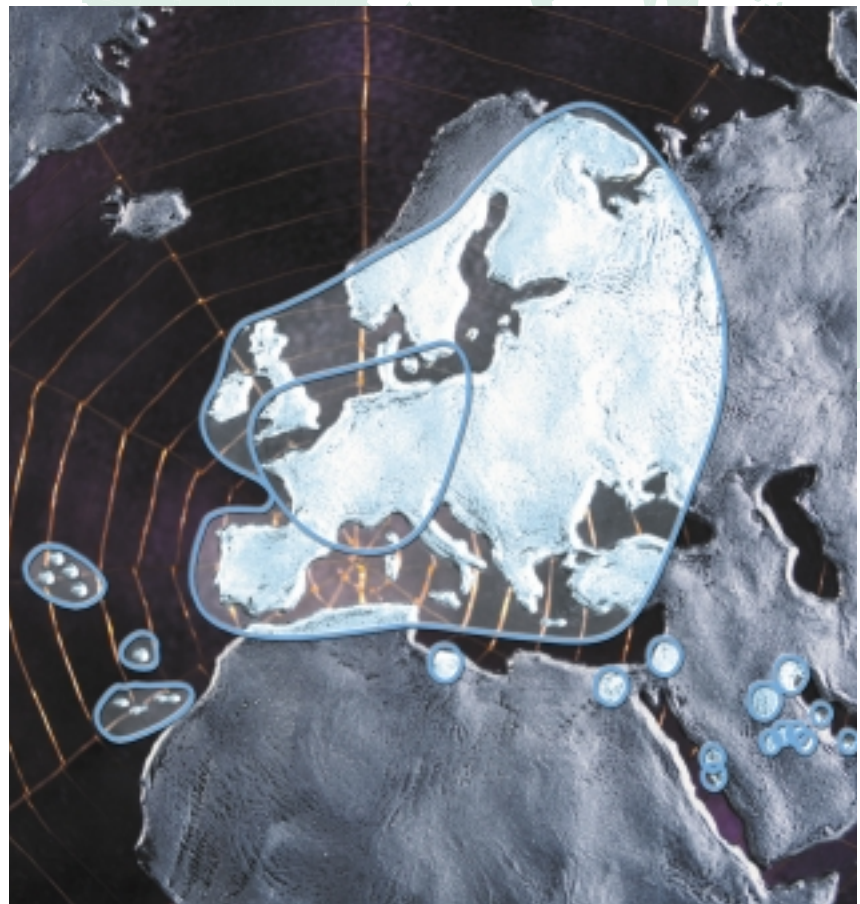
With the ATLANTIC BIRD™ 2 contract, Alcatel Space is reinforcing its partnership with Europe's leading satellite operator. An organisation federating 48 European countries, EUTELSAT currently operates 18 in-orbit satellites. Indeed, not counting ATLANTIC BIRD™ 2, Alcatel Space has manufactured 12 birds for EUTELSAT: 5 Eutelsat II's, 2 Hot Birds, 3 Eutelsat W's, 1 SESAT (with NPO-PM) and 1 EUROBIRD. 10 of these satellites are now operating successfully in orbit.

Why has EUTELSAT placed such confidence in Alcatel Space ? Our success is the result of 30 year's valuable experience combined with our European team's innovative techniques, all coordinated from Alcatel Space's in-house facilities

–including clean rooms for assembly, test and integration– located in Cannes. It is those assets –our experience and our mastery of innovative techniques– that enabled us to contract for a 16-month on-ground delivery of ATLANTIC BIRD™ 2 to EUTELSAT. By meeting this rapid delivery schedule, which is made possible by an advance production policy for the Spacebus 3000B platform,

Alcatel Space will enable EUTELSAT to meet crucial back-up service requirements while expanding digital and multimedia services.

In addition to the on-ground delivery of ATLANTIC BIRD™ 2, Alcatel Space's prime contract with EUTELSAT provides for the satellite's launch campaign, as well support for its operations and mission analysis.



## The ATLANTIC BIRD™ 2 satellite

Subject to the successful upcoming launches of EURO BIRD, Atlantic Bird™ 2 will go into full commercial service at 8° West, which is its nominal orbital position. Nevertheless, this satellite is compatible with other orbital positions.

Based on a Spacebus 3000B platform, ATLANTIC BIRD™ 2 will be equipped with 26 Ku-band transponders in the FSS band that are switchable into three coverages – a Widebeam over Europe, a beam that reaches North and South America, and a steerable beam.

ATLANTIC BIRD™ 2 to be assembled and integrated in Alcatel Space's clean rooms at Cannes and Toulouse, will benefit from 6.39 kW of power for an operational lifetime of more than 12 years and have a launch mass of approximately 3 tonnes.

In addition to its role as systems architect, Alcatel Space Industries is building the satellite's payload (with subsidiary Alcatel Espacio), as well as its structure, thermal control, power supply, harness and fixed antennas. As prime contractor, Alcatel Space has put into place an international team of industrial experts well experienced in manufacturing

Spacebus components:  
DSS (propulsion, attitude control and solar arrays)  
SAAB ERISSEON SPACE (data handling)  
ALENIA (mobile antenna)  
ELV (deployable antenna reflectors and central tube).

## Main characteristics

### Nominal orbital

**position:** 8° Ouest

**Lifetime :** 12,25 ans

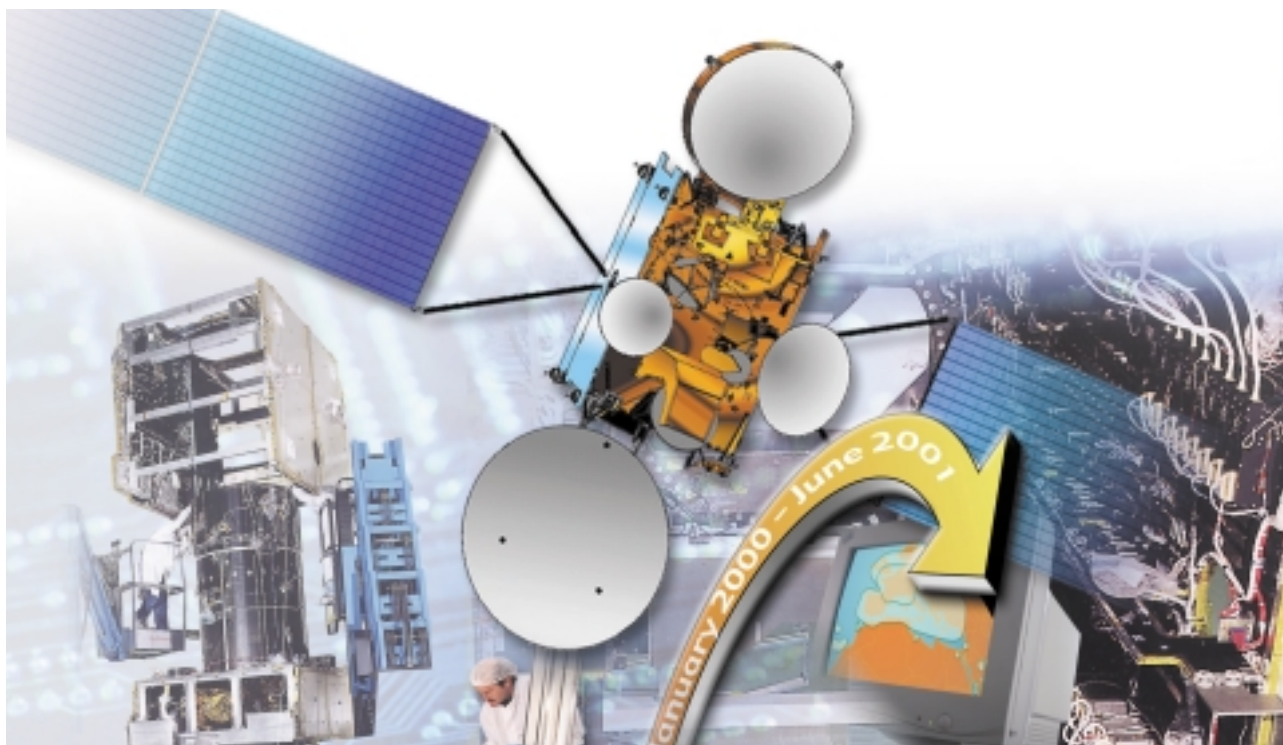
**Mission :** 26 channels in KU-band

**Dry mass :** 1,372 kg

**Launch mass :** 2,940 kg

**Power :** 6,400 W

(end of life, equinox).



For further information, please contact  
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