

Flux, a major contributor to the ATV Jules Verne vehicle

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The automated vehicle, named Jules Verne, will execute an unmanned flight phase to reach the International Space Station and will automatically dock with the Russian service module Zvezda early April.

Flux is proud to announce that it has significantly contributed to the development and manufacturing of the European Space Agency's ATV (Automated Transfer Vehicle) which was launched from Kourou, French Guiana, on March 9 by a special version of the Ariane 5 launcher

The ATV delivers experiments, equipment and spare parts, as well as food, air and water to the ISS' permanent crew. The ATV is designed to automatically dock with the Russian service module Zvezda. The ATV Jules Verne will remain in orbit for six months before re-entering and burning up in the Earth's atmosphere.

For this critical program, Astrium Crisa, Saab Space & Thales Alenia Space have selected Flux as supplier.

Astrum Crisa has developed the communication Processor Formatter (CPF) and the Communication Processor Deformatter (CPD). CPF is integrated in the ATV avionics and the CPD in the Russian service module on the ISS,

Thales Alenia Space has designed the ATV communication equipment, meaning the proximity link communications equipment between the ATV and the ISS, the ATV's TTC (Tracking, Telemetry and Command) data relay communications with the Earth stations through the NASA's TDRSS satellite constellation, as well as the Video Visual Target and related electronic. In addition, Thales Alenia Space has integrated in the ICC the Videometer (VDM) and Telegoniometer eye-like sensors, the first automatic optical operational systems ever used for spacecraft navigation

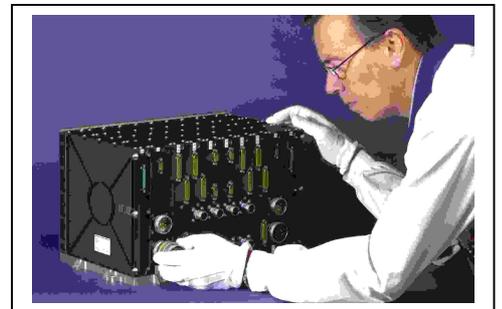
SAAB Space has designed and manufactured the equipment Monitoring and Safety Unit (MSU). This is a computer looking over the shoulder of the flight computers. Making sure everything goes smoothly, and ready to intervene if something goes outside the safety limits.

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The ATV and ISS



Saab Space MSU