FRONTGRADE Gaisler

About us

Gaisler overview presentation

FRONTGRADE Gaisler

A world leader in embedded computer systems for harsh environments

Experts in fault-tolerant computing

We provide a full ecosystem to support hardware and software design for:

- Standard components
- Semi-custom FPGA
- Full custom ASIC

Based on SPARC and RISC-V architectures

Established 2001 as a spin-off from the European Space Agency and Chalmers

Located in Gothenburg, Sweden

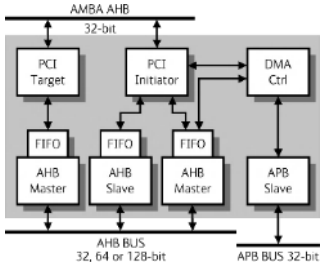
75+ employees in Sweden, Spain, Germany, France and the United Kingdom

Capabilities: software and ASIC/FPGA design

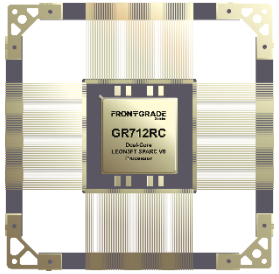
Facilities: component lab

Complete offering of embedded computer systems for harsh environments

IP core building blocks



Components



Software

WIND

Linux

SYSGO
EMBEDDING INNOVATIONS

fentISS

Embedded With RTEMS

Development & Test

Services

Services

Cross-functional team of experienced engineers

Training

- Tailored training for rapid start

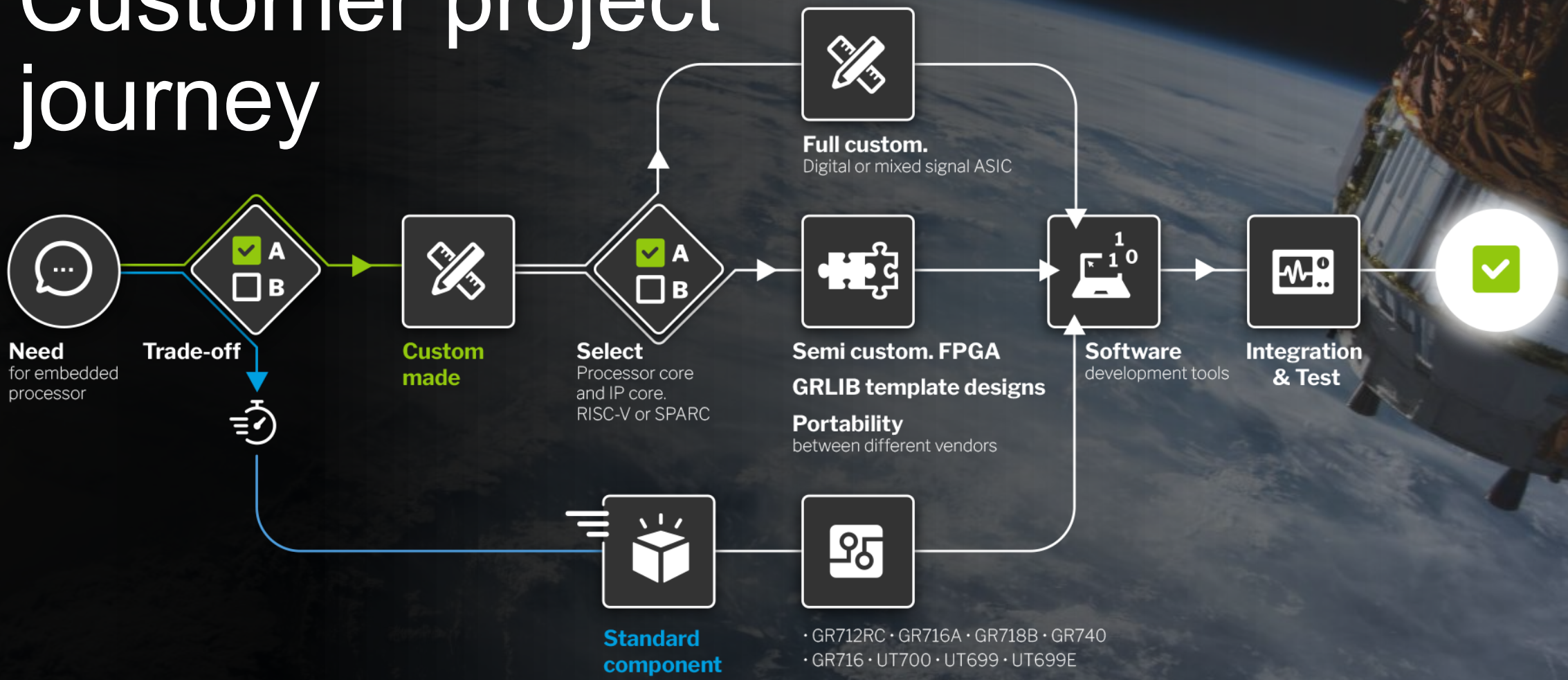
Support

- Standard support package
- Design reviews of SoC architectures

Design

- IP core development
- SoC development
- Software design services
- Documentation

Customer project journey



Our EEE Portfolio

HIGH RELIABILITY

Radiation hardened | Space qualified | Fault-tolerant

MICROCONTROLLERS

GR716B

1 core, LEON3FT, mixed signal

100 Mhz, 100 Krad(Si)

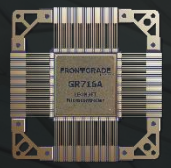
CQFP132 / PBGA400 / SIP PBGA400

GR716A

1 core, LEON3FT, mixed signal

50 MHz, 100 Krad(Si)

CQFP132



MICROPROCESSORS

GR765 IN DEVELOPMENT

8-core, LEON5FT and RISC-V

800 Mhz, 50/100 Krad(Si)

FF1924

GR740

4-core, LEON4FT

250 Mhz, 300 Krad(Si)

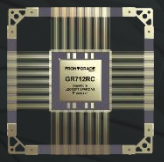
CCGA625 / CLGA625 / PBGA625

GR712RC

2-core, LEON3FT

100 Mhz, 300 Krad(Si)

CQFP240



EDGE AI NPU

GR801 IN DEVELOPMENT

Neuromorphic engine + 1-core RISC-V

>1TOPS below 0.5W, 50/100 Krad(Si)

BGA400

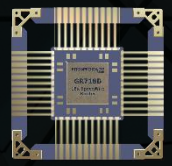
INTERCONNECT

GR718B

SpaceWire router, 18 ports

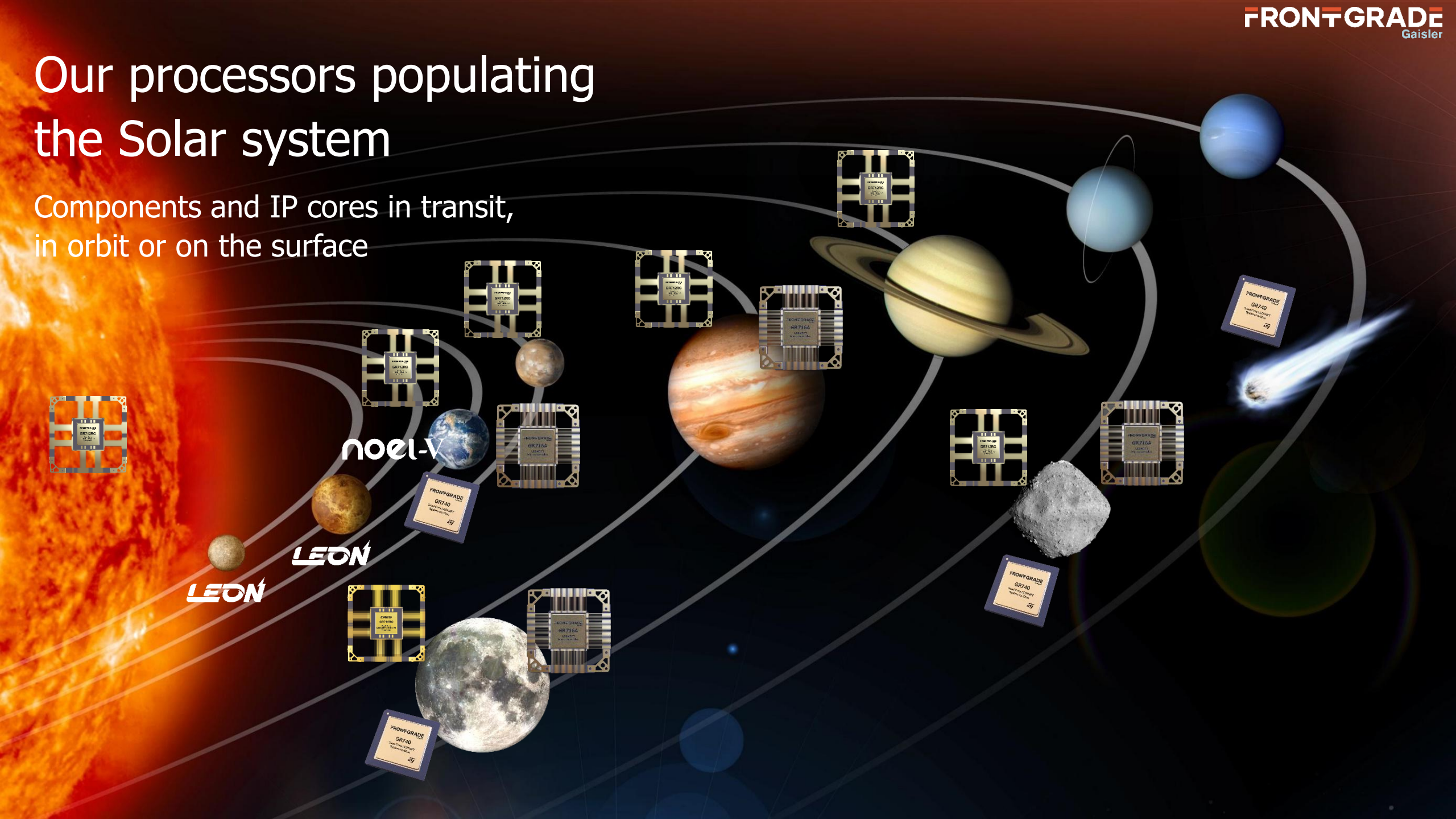
200 Mpbs/port, 300 Krad(Si)

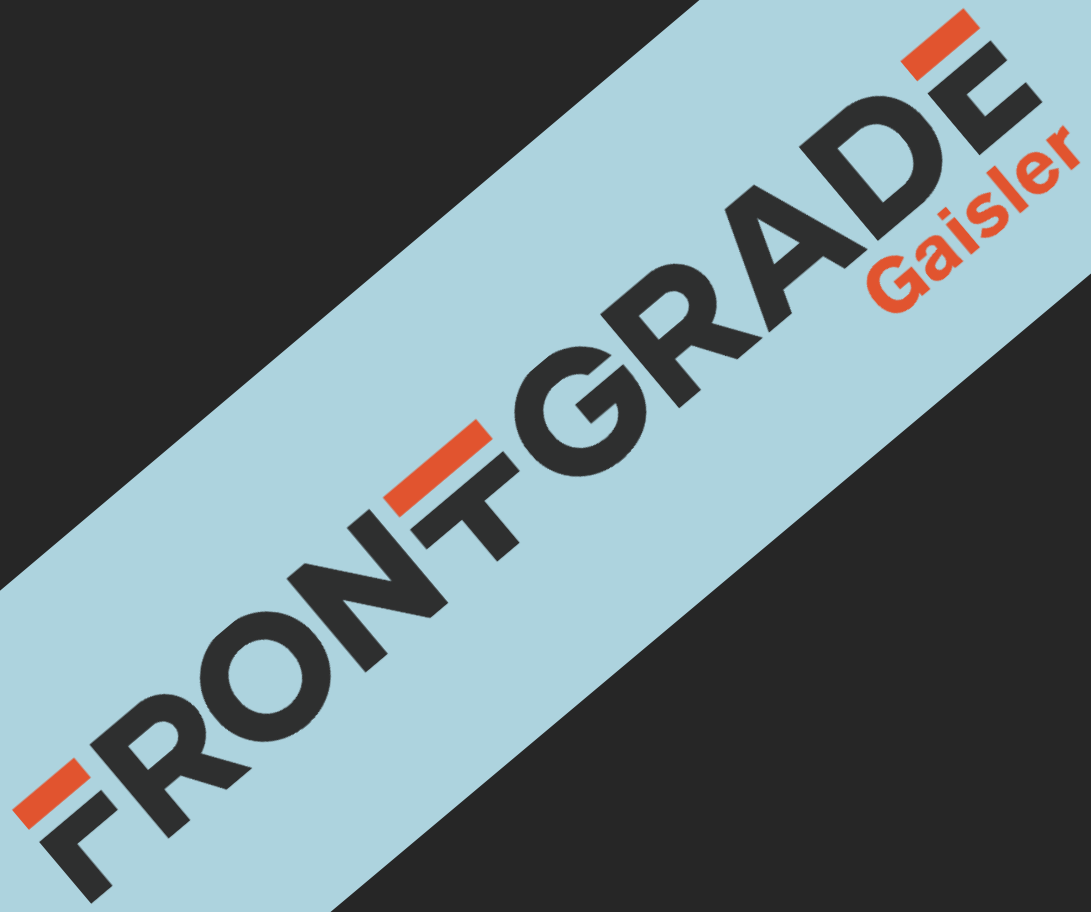
CQFP256



Our processors populating the Solar system

Components and IP cores in transit, in orbit or on the surface





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