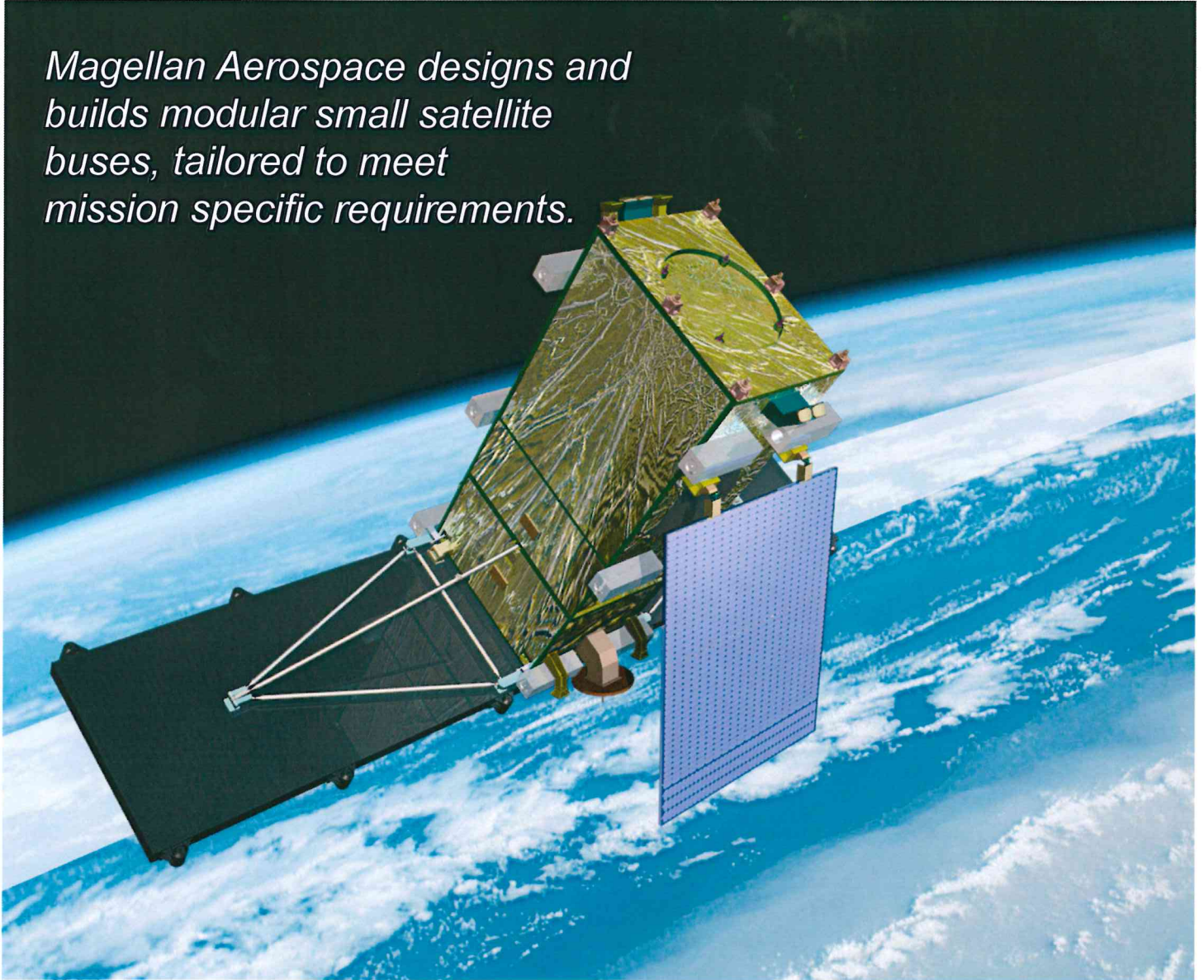
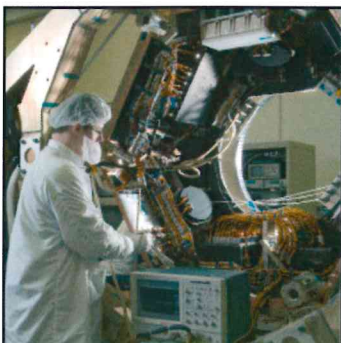


MAGELLAN SATELLITE BUSES

Magellan Aerospace designs and builds modular small satellite buses, tailored to meet mission specific requirements.



SCALABLE ARCHITECTURE • HIGH RELIABILITY • QUALIFIED DESIGN



HERITAGE



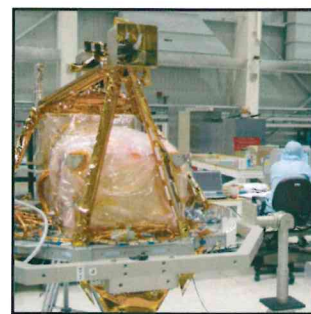
50+ Years of Experience in Space

147 Sub-Orbital Payloads

5 Satellites

2 Space Station Experiments

5 Space Shuttle Experiments



MAC-100

The MAC-100 bus is ideal for low-cost LEO small satellite missions with a design lifetime of approximately two years.

Features:

- Single-string bus
- Low power, radiation-tolerant Command and Data Handling Unit
- Flight-proven bus units
- Heritage
 - SCISAT-1

Attribute	MAC-100	MAC-200
Design Life	2 years	5-10+ years
Architecture	Single String	Dual String
S/C Power	32 W	180-5000 W
Max Payload Mass	50 kg	100-2000 kg
Bus Dry Mass	110 kg	100-2000 kg
Solar Array	Fixed	Fixed or Deployed
Propulsion	None	None or Hydrazine
Attitude Control Type	3-axis controlled ground references	3-axis controlled or ground or on-board reference
Pointing Performance	<240 arcsec	<20-4000 arcsec
Position Knowledge	No GPS Ground track ± 300 m	GPS $\pm 10 - \pm 150$ m

MAC-200

The MAC-200 bus supports fully operational, high-reliability small satellite missions from LEO to GEO with a design lifetime of over 10 years.

Features:

- Fully redundant cross-strapped architecture
- Customizable structure to support specific missions
- Compatible with many launch vehicles, including SpaceX F9 and PSLV
- Heritage
 - CASSIOPE
 - RADARSAT Constellation Mission (RCM)



ABOUT MAGELLAN AEROSPACE

Magellan Aerospace is a global enterprise providing integrated products and services to the aerospace industry worldwide. Magellan designs, engineers, and manufactures aeroengine and aerostructure assemblies and components for aerospace markets, advanced products for military and space markets, and complementary specialty products. Magellan Aerospace is a public company whose shares trade on the Toronto Stock Exchange (TSX: MAL), with operating units throughout Canada, the United States, the United Kingdom, Poland, and India.

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