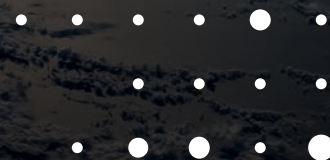




MCS

Advanced Compact GEO
Communication Satellite



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GENERAL

IAI's MCS delivers exceptional in-orbit flexibility and customization capabilities to tailor to your special needs. MCS is a communication satellite system designed for developing commercial/national markets in low-capacity volume or when having limited bandwidth slots, enabling the customers an affordable cost and a variety of communication missions, a complete flexible operation, sovereignty and growing with the market ("pay as you grow").

MCS's payload is all-digital based, with embedded programmable digital HW (SDR - Software Defined Radio) and supported by flexible RF converters to enable in-orbit mission frequency plan update for Ku and Ka band applications.

ATTRIBUTES

- At 1,000 kg at launch, enables low cost launch (rideshare configuration)
- In-Orbit Programmable HW (FPGA based)
- Up to 200 kg of payload mass with 2,000W power consumption
- Up to 8 active high power amplifiers
- Flexible antenna configurations: 2 x 2.5 m or 1 x 2.0 m + 2 x 1 m
- Lifetime of more than 14 years in GEO orbit

The control mission architecture enables a "virtual payload" payload assets assigned to service providers at a given time. It may change over time or may be constructed by assets from different satellites. IAI provides comprehensive turnkey solutions, including ground stations, mission centers, exploitation, launch, maintenance, training and other services

OUR COMPLEMENTARY SOLUTIONS

